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REPORT ON THE QUALITY OF MARINE SURFACE OBSERVATIONS FOR THE PERIOD JULY TO DECEMBER 1997.

REPORT NO. 18

DATA ASSIMILATION,
METEOROLOGICAL OFFICE,
BRACKNELL.

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JULY TO DECEMBER 1997

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REPORT ON THE QUALITY OF MARINE SURFACE OBSERVATIONS:

JULY TO DECEMBER 1997

CONTENTS

1. Introduction

2. Monitoring methods

3. Monitoring results:

3.1 *Pressure*

3.2 *Wind*

3.3 *Sea-surface temperature*

4. Summary

LIST OF TABLES

1. Frequency distribution of the number of observations of pressure, wind and SST.

2. Number of observations of pressure for past six-month periods.

3. Platforms reporting suspect pressure observations:

3a *Stations reporting in DRIFTR code.*

3b *Stations reporting in SHIP code.*

4. Platforms reporting in SHIP code,not listed in table 3 but listed as suspect in the previous six-month period.

5. Platforms reporting suspect wind speed observations:

5a *Stations reporting in DRIFTR code.*

5b *Stations reporting in SHIP code.*

6. Platforms reporting in SHIP code,not listed in table 5 but listed as suspect in the previous six-month period.

7. Platforms reporting suspect wind direction observations:

7a *Stations reporting in DRIFTR code.*

7b *Stations reporting in SHIP code.*

8. Platforms reporting in SHIP code,not listed in table 7 but listed as suspect in the previous six-month period.

9. Platforms reporting suspect sea surface temperature:

9a *Stations reporting in DRIFTR code.*

9b *Stations reporting in SHIP code.*

10. Platforms reporting in SHIP code,not listed in table 9 but listed as suspect in the previous six-month period.

LIST OF FIGURES

1. Number of observations of pressure for past six-month periods.

2a Distribution of O-B SHIP pressure differences, all observations.

2b Distribution of O-B SHIP pressure differences, flagged observations only.

2c Distribution of O-B SHIP pressure differences, unflagged observations only.

2d-f As 2a-c but for wind speed.

2g-j As 2a-c but for wind direction.

3. Geographical distribution of bias of SHIP pressure.

4. Geographical distribution of standard deviation of SHIP pressure.

5. Geographical distribution of the number of SHIP pressure observations.

6-8 As figures 3-5 but for wind speed.

9-11 As figures 3-5 but for wind direction.

12a Number of observations of SST for each hemisphere & observation type.

12b Mean O-A of SST for each hemisphere & observation type.

12c Standard deviation of SST for each hemisphere & observation type.

13-15 As figures 3-5 but for SST.

16. As figure 5 but for fixed buoys and for SST.

17. As figure 5 but for drifting buoys and for SST.

REPORT ON THE QUALITY OF MARINE SURFACE OBSERVATIONS:

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1. INTRODUCTION

In 1985, the Commission for Basic Systems agreed that there was a need for GDPS / Global NWP centres to monitor the quality of observations available on the GTS and to exchange monthly lists of those stations providing observations which seem in error. In 1988 three lead centres were nominated which would have a co-ordinating role of producing, at six-monthly intervals, consolidated lists of suspect stations for given data types together with information on the nature of the error. RSMC Bracknell was allocated the rôle as lead centre for marine surface observations which encompasses observations from ships, drifting buoys, moored buoys and other fixed marine platforms. This is the eighteenth such report and covers the period July to December 1997. The report covering the period January to June 1998 will appear in autumn (fall) 1998.

Following the CBS recommendations, four centres have been active in exchanging monitoring information each month; RSMC Bracknell since August 1987, ECMWF since August 1988, RSMC Tokyo since September 1988 and NCEP Washington since August 1989. At first, the only monitoring information exchanged on marine surface observations was related to pressure, and the first two WMO reports were restricted to that parameter alone. All four centres now regularly monitor wind observations and results are contained in this report. In addition, the report contains monitoring results for sea-surface temperature (SST). For each marine observing platform identified as suspect, values are supplied for the number of observations received at each centre, the number of observations with gross errors, and the mean and rms differences from the background values used by the numerical data assimilation system.

2. MONITORING METHODS

Errors in observations may arise from a number of sources: the instrument may be malfunctioning, figures may be mistaken while being transferred manually, or there may be corruption of data during transmission. Errors can also arise in the pressure report if the adjustment to sea level is made incorrectly or not at all, and a poorly-sighted anemometer can result in errors in the observations of wind. For SST observations, the depth at which the observation is made can be crucial. "Surface" observations from buoys are usually made at a depth of around 0.5m, whereas ships may take a measurement between a depth of 10m and the surface, depending on the method used. At present, there is no indication given within the report of the observation's depth, so it is not possible to determine the significance of this factor. By contrast, satellites measure the temperature of the ocean's "skin" which is generally slightly cooler than the temperature immediately beneath, by several tenths of a °C, as a result of evaporative cooling and other surface processes. Some of these errors can be detected by applying checks on the code format and the internal consistency of the report (for example: are the position and pressure consistent with a report 6 hours earlier?). Checks on spatial consistency may be made if there are other nearby observations. However, such quality checks are unable to identify errors on all occasions and it is recognised that the numerical data assimilation systems in use today can provide global reference values which have a valuable application in the area of observation monitoring. The short-term forecast from the previous numerical analysis, commonly known as the first-guess or background field, provides perhaps the most useful information on observation quality, as it represents an accurate and spatially consistent estimate of the observed value which is independent of the observation itself. Observation-minus-background (hereafter referred to as O-B) differences are at the centre of all monitoring work by GDPS centres. For sea-surface temperature, it is not possible to use a background field with which to compare the observed value, as for wind and pressure observations, because no forecast of SST is performed. Instead, the analysis field is used. SST changes only slowly relative to parameters above the surface, thus this is a good enough approximation. Analyses are performed daily at RSMC Bracknell from an assimilation of both

surface and satellite observations. There is one drawback in using the analysis field as an alternative: it is not independent of the observations themselves. This is a major limitation when it comes to assessing observation quality since the results are not straightforward to interpret.

Taking all marine surface observations together, the values of O-B have distinct characteristics. The vast majority of the observations show quite small departures from background and the distribution of O-B is nearly Gaussian, with little or no bias. The errors in the background field probably contribute most to the values of O-B for these observations. There is, however, often a smaller group of observations departing much more from background, for which observation error is the only reasonable explanation for the large values of O-B. Studies of the distribution of O-B and its variation at different points around the globe enable reasonably accurate estimates of background error to be made, and this provides the basis for the monitoring methods described here. Those marine observing platforms for which, in a sufficiently large sample, the observed values of pressure or wind differ from the background by an amount significantly in excess of the estimate of background error, may be labelled as suspect with a high degree of confidence. The limits used here to identify suspect observing platforms have been set sufficiently stringent to preclude much likelihood of the background, rather than the observations, being in error.

Each monitoring centre produces a monthly list of the identifiers of marine observing platforms considered suspect according to the departure from the centre's background values. All observations, both synoptic and asynoptic, are assimilated. At Bracknell, Tokyo and Washington, the corresponding background value used is that valid at the nearest main synoptic hour. At ECMWF, however, interpolation in time is performed.

Given that the number of observations made during the month is greater than or equal to 20, then the condition used by all centres for obtaining platforms for the suspect lists is that at least one of the following criteria are satisfied:

Pressure

1. the | mean of O-B |	$\geq$	4.0hPa
2. the standard deviation of O-B	$\geq$	6.0hPa
3. the percentage of gross errors	$\geq$	25

Wind

1. the | mean of O-B |	$\geq$	5.0ms^{-1}	(Speed)
	$\geq$	30°	(Direction)
2. the standard deviation of O-B	$\geq$	80°	(Direction)
3. the percentage of gross errors	$\geq$	25	

A gross error is defined as an observation which departs from the background by more than 15hPa (Pressure) or 25ms^{-1} (Vector Wind). The mean and standard deviation of the samples are evaluated excluding gross errors and in this way occasional "wild" values resulting from, for example, corruption during transmission, do not influence the sample characteristics. Direction statistics are also calculated excluding values in light winds, where either the observed or background speed is less than 5ms^{-1}.

Relatively little information is exchanged between centres on a regular monthly basis for SST.

The monthly results for pressure from all four monitoring centres show considerable agreement, both on the observing platforms listed as suspect and the values of the mean and rms difference from each centre's background. Differences between the monthly suspect lists are usually due to the different numbers of observations available at each centre. The cut-off varies between 6 and 24 hours. There are also some unexplained variations in the data receipt between the centres, which may be due to problems in the GTS or in the local procedures for handling the data. Monitoring results for wind speed also show reasonable agreement on the mean and standard deviation from

each centre's background; there is less agreement as to which platforms are listed, reflecting the greater uncertainty when monitoring wind speed.

This report draws together all the monthly monitoring results exchanged on marine surface data and identifies a list of observing platforms which have provided observations of poor quality over the six-month period. In drawing-up this list, there have been a number of guiding principles:

1. As with the monthly lists, accuracy is assessed relative to background values.
2. Only those observing platforms are listed for which there is a very high degree of confidence that the observations rather than the background values are in error.
3. At least 40 reports are required over the period in which the observations are considered suspect.
4. The perceived accuracy over the last part of the six-month period is of greatest importance; observing platforms will not be listed if there has been recent improvement and their reports are at present without major error.
5. Given that the number of observations made during the period is greater than or equal to 40, then the condition for listing a platform as suspect in this report is that at least one of the following criteria are satisfied:

Pressure

1. the | mean of O-B |	$\geq$ 3.5hPa	
2. the standard deviation of O-B	$\geq$ 5.0hPa	
3. the percentage of gross errors	$\geq$ 25	

Wind

1. the | mean of O-B |	$\geq$ 5.0ms^{-1}	(Speed)
	$\geq$ 30°	(Direction)
2. the standard deviation of O-B	$\geq$ 6.0ms^{-1}	(Speed)
	$\geq$ 60°	(Direction)
3. the percentage of gross errors	$\geq$ 25	

SST

1. the RMS of O-A	$\geq$ 2.5°C	
2. the percentage of gross errors	$\geq$ 25	

The same gross error limits apply in this report as for the monthly lists, with the limit for SST being set at 5°C. All observations having gross errors are excluded from the calculation of the mean and standard deviation of O-B and O-A.

The limits set on the bias and standard deviation of O-B are slightly less stringent than those for the monthly lists because the sample sizes are larger. They are only applied over the last part of the period if there has been a recent deterioration in quality. It is possible that there are a few observing platforms listed in this report which have not appeared on any of the monthly lists. This can occur if they report infrequently and only produce a large enough sample over a period of several months. The six-month list is longer than most of the monthly lists because many ships cease reporting for variable periods of time, presumably in most cases while they are in port or out of service. Only over a relatively long period, probably more than six months, is a representative sample obtained from all those ships providing observations.

3. MONITORING RESULTS

The monitoring results presented in this report relate only to data exchanged over the GTS. Observations from marine platforms are transmitted in one of two formats: the SHIP code, used for most observations from ships, moored buoys and other fixed platforms, and the BUOY code, used mostly for observations from drifting buoys. In this report the term "ship observations" refers to those received in the SHIP code and the "drifting buoy observations" to those received in BUOY code. The SHIP code indicates whether the observation was made manually or by an automatic system and accordingly the sub-divisions "manual ship" and "automatic ship" will be defined.

3.1 Pressure

In the six-month period July to December 1997, 1,277,918 observations of pressure were monitored at Bracknell from 5858 manual ships, 358 drifting buoys, and 437 automatic ships. The number of reports received from individual ships varies greatly as Table .1 demonstrates; apparently, a large percentage only report once. The reason for this is unclear but it may be a result of errors in the part of the message giving the ship identifier. A comparison with the corresponding table in the seventeenth report, shows that the number of manual ship identifiers has increased slightly; the increase is however limited to the 1 and 200-1000 report ranges, all other ranges have in fact decreased. The number of drifting buoys has also decreased a little, but with the shift towards a greater number of reports from each buoy continuing in general terms, this decrease has been counteracted. There has been a small increase in the number of automatic ships reporting. There will inevitably be some seasonal variation in the number of vessels reporting, as the deployment of new / replacement buoys will generally be done in less inclement conditions.

Table 2 shows the number of observations of pressure that have been received over the GTS at Bracknell for past six-month periods. Due to changes in data storage methods at Bracknell in May 1991, report number 5 covered the period January to May 1991 only, thence figures for January-June 1991 have been scaled-up in order to make a fair comparison with other six-month periods; this may not be entirely accurate. Further changes in November 1993 for drifting buoys & automatic ships for pressure & winds, may have allowed duplication of a few identifiers in Table 1 for the period June to December 1993, as reclassification from one observation type to another occurred. The observation distribution shown in Table 2 will also have been affected in the long term with a slight shift towards drifting buoys; no duplication of observations occurred however. SST observations were not affected by the November 1993 change.

Figure 1 shows the information presented in Table 2 more clearly. It can be seen that the total number of observations remained fairly steady with only minor fluctuations until report number eleven (January-June 1994). Since that time however, there has been a dramatic increase in the total, with the number of observations of pressure practically doubling between reports eleven and sixteen (July-December 1996), a period of just 2.5 years. This increase can be attributed to the increase in the number of reports from each drifting buoy as reliability improves; a good percentage of these now make over 2,000 pressure observations during the period covered by a report. The number of reports from drifting buoys now exceeds those for manual ships by around 50%. Indeed over 50% of all pressure observations made by marine vessels are now made by drifting buoys.

A histogram of O-B differences for all ship pressure reports in the period July to December 1997 is shown in Figure 2a, together with the Gaussian distribution with the same mean and standard deviation. Although almost all values fall within the range +5 to -5 hPa, a small number of much larger values, presumably resulting from erroneous observations, contribute to the large standard deviation of the population. The distribution for all those observations which fail the automatic quality-control checks is broad (Figure 2b). The remaining 94 per cent of the observations which pass the quality checks show a distribution of O-B which is very close to Gaussian (Figure 2c) with mean -0.1 hPa and standard deviation 1.4 hPa; the principal contribution to the standard deviation is assumed to be from background errors.

A global estimate of the background error, such as is provided above, will conceal large spatial variations which may occur. Background values will be more accurate in data-rich areas (e.g.: in the North Sea or Mediterranean) or where the meteorological variability is low (e.g.: the tropics). The geographical distributions of the mean and standard deviation of the values of O-B from all

ship observations which pass the quality-control checks, have been calculated for 10-degree latitude-longitude boxes and are plotted in Figures 3 and 4. In almost all areas, the magnitude of the mean is less than 0.5 hPa, the exceptions being generally only where the sample size is small. The standard deviation in the tropics is 1.0 to 1.5 hPa, and elsewhere 1.5 to 2.0 hPa. The number of ship pressure reports accepted by the model quality control in each 10-degree box is shown in Figure 5.

Table 3 contains a list of those ships and drifting buoys considered to have produced suspect observations of pressure in the period January to June 1997. Values over the six-month period are given for the number of observations of pressure available for the Bracknell global model runs, the number of observations differing from the background value by more than 15 hPa (gross errors), and the mean and standard deviation of O-B using the Bracknell global model. The number of times the identifier has appeared on the monthly suspect lists from the four monitoring centres is also given. In order to give a detailed picture of the frequency of reporting and any changes in the observation accuracy, six-month time-series of O-B differences are given at the end of the report for each of the identifiers listed.

An interesting characteristic of the errors identified here, which soon becomes obvious on inspection of the time-series charts at the end of this report, is that most can be attributed to a bias in the observed pressure. In many cases the bias is constant over the whole monitoring period. There are some values which appear to depart greatly from the sample mean, presumably due to some gross error in the observation, but generally they are isolated instances. In only a few cases are there regular large random departures from background. Those observing platforms listed in Table 3 which appeared in the seventeenth report (January to June 1997) have been indicated with an asterisk. A comparison of the statistics given here with those in the sixteenth report (July to December 1996), clearly indicates that the bias in the pressure observations from some ships has scarcely changed over the past 12 months.

Statistics for those marine observing platforms which were listed in the seventeenth six-monthly report and which do not appear in Table 3b, are given in Table 4 along with comments on the quality of their pressure observations. Time-series charts of the pressure observations from these platforms are not given. Less than 40 reports have been received in the latest six-month period for a majority of the ships on this list; several show some improvement in the quality of observations, however.

3.2 Wind

The monitoring of observations of wind, presents more problems than for pressure. On the majority of observing platforms, wind is measured using anemometers. The reported speed will be dependent on the averaging period and the height of the instrument above sea level, which will vary a great deal from platform to platform. The wind flow is distorted by a large structure and factors affecting the wind measurement will also include the siting of the anemometer and the bearing of the wind with respect to the structure. Not all winds are measured by anemometers; observations from some ships are based on visual estimates of the sea state and in these cases the factors outlined above do not apply.

In the monitoring results presented here, the background winds are valid at a height of 10 metres above mean sea-level, a little lower than the average height of a ship anemometer. Where the anemometer height is much different from the reference height, a significant O-B speed bias may be introduced. This will be the case, for example, for observations from oil rigs or tankers with an anemometer height of 50m or more, or from buoys where the anemometer can be as low as 2m.

In the period July to December 1997, 543,760 observations of wind were available for monitoring at Bracknell from 5208 manual ships, 107 drifting buoys, and 448 automatic ships. A more detailed breakdown is given in Table 1. Histograms of O-B differences for ship observations of wind speed are presented in Figures 2d to 2f and of wind direction in Figures 2g to 2j. As with observations of pressure, those wind observations which fail the quality-control checks differ most from background, some by as much as 40ms^{-1}, and they make a large contribution to the variance of O-B. The distributions of O-B wind speed and direction for the remaining 90 per cent of the

observations are nearly Gaussian. There is a speed bias of +1.3ms^{-1} relative to background, with a direction bias of just -1.0°.

Figures 6 and 7 show the geographical distributions over the six-month period of the mean and standard deviation of O-B for ship observations of wind speed which pass the quality-control checks. The numbers of wind reports used to generate these statistics are presented in Figure 8. The standard deviation of O-B wind speed is typically 3 to 4ms^{-1} in middle latitudes and less than 3ms^{-1} in the tropics. The bias is generally around +1ms^{-1}, but exceeds +2ms^{-1} in a few places. Similar distributions of the mean and standard deviation of O-B wind direction are shown in Figures 9 and 10. Only reports where both the observed and background wind speeds are greater than 5ms^{-1} were used to obtain these values. The magnitude of the bias is less than 10 degrees in most places. The standard deviation is generally between 20 and 30 degrees globally, but in some data-sparse areas it is as large as 40 or 50 degrees. The numbers of reports of wind direction used to generate these statistics are presented in Figure 11.

Figures 6-11 provide reference values against which the characteristics of O-B for different marine observing platforms may be compared. Table 5 contains a list of those ships and drifting buoys considered to have produced suspect observations of wind speed in the period July to December 1997, and in Table 7 a similar list is provided for wind direction. Values are given for the number of observations of wind received at Bracknell, the number of observations having a vector difference from background of more than 25ms^{-1} (gross errors), & the mean and standard deviation of O-B. Time-series of O-B for each identifier listed are given at the end of the report. In most cases of suspect speed observations, a constant bias is clearly evident. Errors in observations of direction are more random in nature. Tables 6 & 8 contain statistics for platforms which are not included in Tables 5 & 7 but that were listed in the previous six-month report, for wind speed & direction respectively. Time-series plots for these identifiers are not included in this report.

3.3 Sea-surface temperature

In the six-month period, July to December 1997, a total of 1,502,373 observations of SST were monitored at Bracknell, from 5460 manual ships, 894 drifting buoys and 387 fixed buoys. Of the total, 392,551 were from ships, 351,360 from fixed buoys and 753,696 from drifting buoys. The increase in observations compared with the previous six-month period appears to be a seasonal one (compare SST observations for reports sixteen, seventeen and eighteen). Table 1 gives the number of reports received from individual identifiers in frequency categories and shows that a large number of ships reported only once during the six-month period. Errors in reporting the station's identifier could make a significant contribution to this total. Despite there being a relatively small number of buoys, they constitute a substantial percentage of the total number of observations received. This is due to the frequency at which the observations are made: ships usually report only at the main synoptic hours, or less frequently, whereas some buoys report as often as every hour.

Figures 12a, 12b and 12c show the number of observations, mean O-A and standard deviation of O-A for each of the 3 observation types, for both the northern and the southern hemispheres. Only observations passing quality control checks have been used. Figure 12b shows that the overall bias of each observation type is small (< 0.1°C), with ship observations having a slightly positive bias, whilst fixed buoys have a slightly negative bias; the sign of the bias for drifting buoys varies with the hemisphere. Figure 12c shows that ship observations are substantially more erratic, with standard deviations approximately twice those of fixed and drifting buoys. This is partly due to the fact that buoys report frequently and at a quasi-constant location which effectively gives them increased weight in the analysed field.

Figures 13, 14 and 15 respectively show the global distribution of the bias and standard deviation of O-A and the numbers of observations, for ships. The largest biases occur at high latitudes, which is most likely a result of the small number of observations available and hence the decreased reliability of the analysis in these areas, particularly in the southern hemisphere. Figures 16 and 17 show the global distribution of fixed and drifting buoy SST reports. The coverage provided by drifting buoys is extensive, the exception being tropical areas of the Atlantic, and the polar regions.

Fixed buoys are largely concentrated in coastal regions, with particularly high observation densities around the UK and the USA, as well as Japan and Hawaii. A number of 10° x 10° grid boxes contain less than 5 reports; this situation may have arisen from reports containing erroneous positions.

Table 9 contains a list of the ships and drifting buoys considered to have produced suspect observations over the six-month period. The comments given in each case provide an indication of the main reason for the station to be listed as suspect; time-series charts have also been plotted for SST and are included at the end of the report. A large number of the identifiers appearing on the list do so as a result of a persistent bias. A high percentage of those listed due to the number of gross errors, also show a large bias. Table 10 gives details of the performance over the latest six-month period of ships which were considered suspect in the previous six-month period but which don't appear in Table 9. A reasonable number of the ships included in Table 10 have shown an improvement in the accuracy of SST measurements during the past six months.

4. SUMMARY

85 marine observing platforms are listed as producing suspect observations of pressure over the period July to December 1997, 22 as producing suspect wind observations and 100 as producing suspect SST observations. The first report issued by RSMC Bracknell for the period January to June 1989, listed 150 marine platforms producing suspect observations of pressure. The selection criteria have remained unchanged, and the reduction in the number of platforms listed seems to reflect a genuine improvement in quality over the period.

The most common characteristic of the pressure errors found here is a bias in the reported pressure which may remain constant for many months. The majority of platforms listed as producing suspect wind observations show a bias in the reported wind speed, while a few show a large standard deviation in wind direction. For sea-surface temperature observations, the presence of a persistent bias is again found to be the most common cause of error.

The selection criteria have been set sufficiently stringent to ensure that only those are listed for which there is a high degree of confidence in there being large observation errors. There are a great many others, not listed here, for which there must be considerable doubt over the quality of the observations. A wider range of monitoring results are available from Bracknell on request.

TABLE 1: FREQUENCY DISTRIBUTION OF THE NUMBER OF REPORTS OF PRESSURE, WIND AND SEA SURFACE TEMPERATURE FROM INDIVIDUAL IDENTIFIERS AVAILABLE FOR MONITORING AT BRACKNELL, JULY TO DECEMBER 1997.

Number of reports	Number of manual ships reporting			Number of drifting buoys reporting			Number of automatic ships reporting		
	Press	Wind	SST	Press	Wind	SST	Press	Wind	SST*
1	2487	2009	2305	23	22	0	188	143	2
2-10	709	692	777	24	18	18	46	45	199
11-20	264	286	248	7	11	12	9	10	25
21-40	386	391	347	13	5	22	9	10	22
41-100	652	681	625	21	5	56	18	18	18
101-200	661	628	582	20	9	48	9	18	7
201-500	620	470	492	52	9	256	43	66	7
501-1000	61	35	55	82	15	299	111	136	7
1001-1500	17	12	13	69	9	62	4	2	16
1501 +	1	4	16	47	4	121	0	0	84
Total	5858	5208	5460	358	107	894	437	448	387
Report 17	5614	5079	5534	412	74	946	378	406	353

* numbers are for automatic (fixed) buoys only

TABLE 2: NUMBER OF OBSERVATIONS OF PRESSURE RECEIVED AT BRACKNELL ON THE GTS FOR EACH OF THE SIX-MONTH PERIODS COVERED BY THE WMO REPORTS ON THE QUALITY OF MARINE OBSERVATIONS

Period	WMO report number	Number of Observations			
		Manual ships	Drifting buoys	Automatic ships	Total
Jan-Jun 1989	1	424087	174971	40082	639140
Jul-Dec 1989	2	421315	151972	58016	631303
Jan-Jun 1990	3	424335	177927	63847	666109
Jul-Dec 1990	4	412430	205488	71146	689064
Jan-Jun 1991	5	364760	177069	64401	606230
Jul-Dec 1991	6	348710	148604	68456	565770
Jan-Jun 1992	7	332443	216872	73893	623208
Jul-Dec 1992	8	336958	247873	80862	665693
Jan-Jun 1993	9	340293	288208	77317	705818
Jul-Dec 1993	10	348082	316261	88650	752993
Jan-Jun 1994	11	334134	279963	111928	726025
Jul-Dec 1994	12	383760	305618	142468	831846
Jan-Jun 1995	13	369781	407111	124537	901429
Jul-Dec 1995	14	394016	528938	138653	1061607
Jan-Jun 1996	15	430162	566035	122909	1119106
Jul-Dec 1996	16	477928	621869	133221	1233018
Jan-Jun 1997	17	446530	623835	122178	1192543
Jul-Dec 1997	18	453399	684292	140227	1277918

TABLE 3: LIST OF MARINE OBSERVING PLATFORMS REPORTING SUSPECT PRESSURE OBSERVATIONS OVER THE PERIOD JULY TO DECEMBER 1997.

Column 1 Call sign or identifier.

Column 2 Number of pressure observations available for monitoring over the 6-month period, excluding duplicates, but including any observations with gross errors.

Column 3 Number of pressure observations differing by more than 15 hPa from background (gross error).

Column 4 Standard deviation of observation-minus-background differences excluding cases of gross error.

Column 5 Mean of observation-minus-background differences (bias) excluding cases of gross error.

Columns 6-9 Number of times observing platform has appeared on suspect lists. B=Bracknell, E=ECMWF, T=Tokyo, W=Washington.

Column 10 Comments on quality of pressure observations.

Notes:

1. Units are hPa.
2. Observing platforms marked with an asterisk were listed in the previous report (January to June 1997)
3. Column 9 (Washington) covers the period July-October 1997 only.

Table 3a: Platforms reporting in BUOY code

*i): Platforms **non-operational** at the end of the reporting period*

Ident.		N Obs.	NGE	SD	Bias	B	E	T	W	Comments
17654		382	86	3.4	2.7	1	1	1	1	Gross errors from Aug
17660		940	0	1.9	-3.1	1	1	1	0	Bias drift
23510		295	36	4.3	0.2	1	1	1	1	Gross errors from Aug
23515		49	7	1.8	4.3	1	1	0	1	Bias
23946		160	160	****	****	2	2	0	2	Gross errors; bias +35 hPa
25522		1779	895	3.6	0.3	2	1	2	0	Gross errors; erratic from Sep
31024		745	338	0.9	6.7	2	2	2	2	Gross errors
33576		128	56	4.0	-0.7	1	1	1	1	Gross errors
33946		534	23	6.0	3.3	3	1	1	1	Erratic
33952	*	90	48	4.2	7.6	1	1	1	1	Gross errors
34906		560	0	2.8	-3.7	2	1	1	1	Bias
41523		1596	2	2.5	4.1	2	2	2	0	Bias; erratic from Nov
44777		145	2	4.2	-5.2	1	1	1	1	Bias -9 hPa from Sep
46588		786	88	2.0	2.8	1	1	0	1	Gross errors from Oct
46770		237	0	0.9	-11.6	2	2	0	2	Bias
47602		3464	272	5.1	-0.1	2	2	2	1	Erratic from Oct
51671		144	144	****	****	2	2	0	2	Gross errors; bias +40 hPa
54915		657	0	2.4	-2.3	2	3	1	2	Bias drift

Continued →

*ii): Platforms **operational** at the end of the reporting period*

Ident.	N Obs.	NGE	SD	Bias	B	E	T	W	Comments
52539	2383	0	2.8	-0.6	1	0	1	0	Bias -12 hPa from Dec
54939	1365	28	3.9	-0.5	1	1	1	0	Erratic from Nov
62673	234	84	1.3	-0.3	1	1	0	0	Gross errors
62674	229	85	1.5	-0.2	1	1	0	0	Gross errors

Table 3b: Platforms reporting in SHIP code

Ident.		N Obs.	NGE	SD	Bias	B	E	T	W	Comments
CG2248	*	276	276	****	****	5	4	0	4	Gross errors; bias -20 hPa
CTFS		59	0	2.0	-4.5	0	0	0	0	Bias
CYBJ		77	27	4.7	2.5	3	0	0	2	Gross errors
CYGR		117	86	4.5	-8.1	3	0	1	1	Gross errors
CYLX		120	84	1.5	-13.1	3	0	1	2	Gross errors - some obs in Pa?
C6FA6	*	289	2	1.0	-6.3	5	5	4	4	Bias
DNHS		133	0	2.0	-2.7	2	0	1	0	Bias -4 hPa from Sep
DOWVD2D	*	314	0	2.2	5.4	6	0	6	4	Bias
ELJS4		48	0	1.4	4.6	0	0	0	0	Bias
ELNW7		145	132	1.8	13.1	3	3	2	3	Gross errors; bias +18 hPa
ELSU8		223	2	2.7	5.2	4	4	3	2	Bias
ELUO3		56	4	1.7	6.4	1	1	2	1	Bias
EQUW		72	0	1.9	6.3	0	0	0	0	Bias
EQUY		81	7	1.5	12.3	2	0	0	0	Bias
EQUZ	*	67	67	****	****	2	0	0	0	Gross errors; bias +20 hPa
EUAF		114	0	3.5	5.6	2	2	1	2	Bias; rather erratic
J8EL6	*	186	9	1.3	-5.9	3	0	1	2	Bias
KSLB	*	43	0	0.9	-3.9	0	0	0	0	Bias
MVQN8		238	1	1.6	10.9	3	3	3	1	Bias
NYCQ		101	49	3.9	-6.1	2	2	1	0	Gross errors - some obs in Pa?
OZBL2		57	0	2.7	-4.5	1	1	1	0	Bias
PEXU		209	11	4.0	-4.4	2	3	3	3	Some obs bias -10 hPa
PEXX		54	0	1.5	-3.9	0	0	0	0	Bias
P3NE5		50	0	1.5	7.6	1	1	1	1	Bias
P3YS5		431	0	1.5	2.7	0	0	0	0	Bias
UCAC		42	0	2.0	5.1	0	0	0	0	Bias
UCJL	*	59	1	1.2	9.5	1	1	1	1	Bias
UCTR		41	3	3.4	-3.7	0	0	0	0	Bias
UFYN		81	0	1.8	-4.4	2	0	3	0	Bias
UHLK		50	0	2.0	-5.2	1	1	1	0	Bias
UHVW		178	3	1.8	4.4	4	5	4	3	Bias
UITJ	*	130	2	1.5	-11.4	2	2	1	2	Bias
UQDB	*	100	1	1.8	5.9	2	2	1	1	Bias
VCJW		75	68	3.5	-7.2	1	0	0	0	Gross errors; bias -25 hPa
VCLX	*	96	72	3.5	-9.4	2	0	0	1	Gross errors; bias -25 hPa
VCQL	*	69	1	2.5	-5.0	1	1	1	1	Bias
VCRQ		64	52	4.0	-5.3	0	0	0	0	Gross errors; bias -25 hPa
VCTD		109	93	4.6	-9.1	4	0	1	2	Gross errors; bias -25 hPa
VCTK		44	6	2.6	-6.4	0	0	0	0	Bias; rather erratic
VCTV		53	39	7.0	-6.4	0	0	0	0	Gross errors; bias -15 hPa

Continued →

Ident.	N Obs.	NGE	SD	Bias	B	E	T	W	Comments
VC6750	69	33	4.8	-6.8	1	0	1	1	Gross errors
VDDL	43	33	6.2	-6.0	1	0	0	0	Gross errors
VGNW *	52	15	3.1	-3.2	0	0	0	0	Gross errors
VOXZ	156	131	4.2	-7.1	3	2	2	1	Gross errors; bias -25 hPa
VRUS7 *	71	0	2.8	4.3	0	0	3	0	Bias
VTCN	126	0	2.5	6.8	1	2	3	1	Bias
V2XO	210	4	2.0	-3.7	2	0	0	0	Bias
V7AS7	76	0	1.5	8.1	1	1	0	1	Bias
V7AW8 *	122	0	1.1	4.4	3	2	1	1	Bias
WDZB	101	0	2.8	-3.4	1	0	1	0	Bias -5 hPa from Nov
YJWZ7	101	9	5.8	-3.3	0	0	1	0	Bias -12 hPa from Sep
3EIY6 *	110	2	1.7	11.3	3	0	4	2	Bias
3ESE9	73	0	1.4	4.5	0	1	0	0	Bias
3ESQ5	124	0	1.3	3.5	2	0	0	0	Bias
3FDY6	232	0	2.8	2.3	1	0	0	0	Bias +5 hPa from Nov
3FGN3 *	125	0	1.4	-5.3	4	4	4	3	Bias
3FKZ3	319	0	1.5	4.3	5	0	3	0	Bias
3FTJ4 *	120	1	1.3	10.8	4	0	0	0	Bias
3FZW *	106	0	1.5	5.4	1	0	0	0	Bias
9MCP6	196	0	1.1	7.8	5	5	4	3	Bias
9VHU *	56	1	1.5	7.0	0	0	2	0	Bias
9VIH *	136	0	1.4	-5.8	4	2	2	1	Bias
9VPK	169	0	4.3	4.9	4	4	4	1	Bias +10 hPa from Sep

TABLE 4: LIST OF PLATFORMS REPORTING IN SHIP CODE NOT APPEARING IN TABLE 3 BUT LISTED AS SUSPECT OVER THE PERIOD JANUARY TO JUNE 1997.

Column 1 Call sign or identifier.

Column 2 Number of pressure observations available for monitoring over the 6-month period, excluding duplicates, but including any observations with gross errors.

Column 3 Number of pressure observations differing by more than 15 hPa from background (gross error).

Column 4 Standard deviation of observation-minus-background differences excluding cases of gross error.

Column 5 Mean of observation-minus-background differences (bias) excluding cases of gross error.

Column 6 Comments on quality of pressure observations.

Notes: 1. Units are hPa.

Ident.	N Obs.	NGE	SD	Bias	Comments
C6HD5	0				No reports
C6JT	190	4	4.0	-0.3	No longer biased from Sep
C6LI6	0				No reports
DLDQ	215	1	1.5	-1.8	No longer biased
ELGH5	111	1	2.5	-1.1	No longer biased from Nov
ELIG5	170	0	1.3	1.9	No longer biased
EUJV	121	3	2.6	0.4	No longer biased
KNDM	98	0	1.6	0.2	No longer erratic
LAQN4	52	0	2.0	0.9	No longer biased from Aug
LAVV4	170	3	3.3	0.8	No longer biased from Aug
LAXS2	213	1	2.8	2.4	No longer biased from Sep
OZVW6	0				No reports
S6CL	136	1	3.1	3.9	Bias reduced from Oct
UCJJ	15	3	3.4	-3.8	Less than 40 reports; still somewhat erratic
UCTA	0				No reports
UICP	10	0	1.1	-4.0	Less than 40 reports; bias persists
VCPT	115	62	6.1	-1.6	Gross errors ceased from Oct
VVJS	17	1	1.7	-6.2	Less than 40 reports; bias persists
V2SA	88	15	7.2	-2.9	No longer biased from Nov
V2SM	131	0	2.1	-3.3	No longer biased from Nov
WMGD	0				No reports
WUZ7811	415	31	4.8	-1.6	Gross errors ceased from Sep
YJYS6	17	0	1.8	6.4	Less than 40 reports; bias persists
YLBF	0				No reports
3EMQ9	0				No reports
3EUY3	44	0	4.9	1.4	No longer biased; still somewhat erratic
3EZZ9	106	0	2.4	0.5	No longer biased
3FAQ3	140	0	1.9	2.9	Bias reduced
3FCU3	0				No reports

Continued →

Ident.	N Obs.	NGE	SD	Bias	Comments
3FGQ3	19	0	0.9	7.9	Less than 40 reports; Bias persists
4XFN	201	0	1.4	-0.7	No longer biased
62302	433	0	0.8	0.5	No longer erratic
9MBW7	169	0	2.3	-0.3	No longer biased

TABLE 5: LIST OF MARINE OBSERVING PLATFORMS REPORTING SUSPECT WIND SPEED OBSERVATIONS OVER THE PERIOD JULY TO DECEMBER 1997.

Column 1 Call sign or identifier.

Column 2 Number of wind speed observations available for monitoring over the 6-month period, excluding duplicates, but including any observations with gross errors.

Column 3 Number of wind observations with vector difference from background of more than 25ms^{-1} (gross error).

Column 4 Standard deviation of observation-minus-background differences excluding cases of gross error.

Column 5 Mean of observation-minus-background differences (bias) excluding cases of gross error.

Columns 6-9 Number of times observing platform has appeared on suspect lists. B=Bracknell, E=ECMWF, T=Tokyo, W=Washington.

Column 10 Comments on quality of wind speed observations.

Notes:

1. Units are ms^{-1}.
2. Observing platforms marked with an asterisk were listed in the previous report (January to June 1997)
3. Column 9 (Washington) covers the period July-October 1997 only.

Table 5a: Platforms reporting in BUOY code

*i): Platforms **non-operational** at the end of the reporting period*

Ident.	N Obs.	NGE	SD	Bias	B	E	T	W	Comments
41521	217	21	7.2	4.6	1	2	0	1	Erratic from Oct

*ii): Platforms **operational** at the end of the reporting period*

Ident.	N Obs.	NGE	SD	Bias	B	E	T	W	Comments
44609	465	95	6.3	2.2	0	0	0	0	Erratic
62803 *	722	9	3.9	-5.8	2	1	2	2	Bias; random obs. from Aug

Table 5b: Platforms reporting in SHIP code

Ident.	N Obs.	NGE	SD	Bias	B	E	T	W	Comments
DUQM	56	6	6.3	7.8	2	0	0	0	Erratic
GQEK	120	1	4.9	7.1	4	1	3	3	Bias + 5 m s-1 from Sep
PEXU	159	3	5.7	6.7	3	2	3	1	Bias; rather erratic
PHHQ	57	0	6.7	7.8	1	0	0	2	Erratic
PJNP	54	3	7.6	4.0	1	0	0	0	Erratic
VRUZ7	62	0	5.9	6.5	0	0	0	0	Bias
VRVI3	73	0	3.2	-5.4	1	1	1	0	Bias -7 m s-1 from Nov
ZCBE7	162	0	3.7	-5.5	1	2	3	2	Bias
3BIX	63	1	3.6	5.1	1	0	1	0	Bias
3ELC6	300	8	5.4	7.2	4	4	3	2	Bias
3EMW5	68	33	8.0	10.3	1	1	1	0	Gross errors
3FHE4	124	0	4.3	6.3	3	0	2	3	Bias
8PNH	141	1	5.4	9.8	3	3	2	2	Bias

TABLE 6: LIST OF PLATFORMS REPORTING IN SHIP CODE NOT APPEARING IN TABLE 5 BUT LISTED AS SUSPECT OVER THE PERIOD JANUARY TO JUNE 1997.

Column 1 Call sign or identifier.

Column 2 Number of wind speed observations available for monitoring over the 6-month period, excluding duplicates, but including any observations with gross errors.

Column 3 Number of wind observations with vector difference from background of more than 25ms^{-1} (gross error).

Column 4 Standard deviation of observation-minus-background differences excluding cases of gross error.

Column 5 Mean of observation-minus-background differences (bias) excluding cases of gross error.

Column 6 Comments on quality of wind speed observations.

Notes: 1. Units are m s^{-1}.

Ident.	N Obs.	NGE	SD	Bias	Comments
C6KB4	7	3	1.9	18.8	Few reports
FNQI	135	0	3.2	3.1	No longer erratic
FNZQ	178	0	2.7	1.2	No longer erratic
GHMA	117	0	2.4	-4.7	Bias reduced
PJVY	0				No reports
VPGB	0				No reports
XYKX	69	0	2.7	4.8	Bias reduced
9VMY	94	1	7.8	9.4	No longer biased from Dec

TABLE 7: LIST OF MARINE OBSERVING PLATFORMS PRODUCING SUSPECT WIND DIRECTION OBSERVATIONS OVER THE PERIOD JULY TO DECEMBER 1997.

Column 1 Call sign or identifier.

Column 2 Number of wind direction observations available for monitoring over the 6-month period,excluding duplicates, but including any observations with gross errors.

Column 3 Number of wind observations with vector difference from background of more than 25ms^{-1} (gross error).

Column 4 Standard deviation of observation-minus-background differences excluding cases of gross error.

Column 5 Mean of observation-minus-background differences (bias) excluding cases of gross error.

Columns 6-9 Number of times observing platform has appeared on suspect lists. B=Bracknell, E=ECMWF, T=Tokyo, W=Washington.

Column 10 Comments on quality of wind direction observations.

Notes:

1. Units are degrees (°).
2. Observing platforms marked § had a significant bias at some time within the period and the statistics and their plots refer to direction reports associated with background wind speeds greater than 5 ms^{-1}. If no significant speed bias was present the statistics and plots refer to direction reports with an observed speed greater than 5 ms^{-1}.
3. Observing platforms marked with an asterisk were listed in the previous report (January to June 1997)
4. Column 9 (Washington) covers the period July-October 1997 only.

Table 7a: Platforms reporting in BUOY code

*i): Platforms **non-operational** at the end of the reporting period*

Ident.	N Obs.	NGE	SD	Bias	B	E	T	W	Comments
52650	142	0	63.9	-27.5	1	2	1	1	Erratic
62697	98	1	74.8	40.2	1	0	0	0	Erratic
91852	70	0	8.9	101.4	1	1	0	3	Bias

*ii): Platforms **operational** at the end of the reporting period*

There are no platforms in this category.

Table 7b: Platforms reporting in SHIP code

Ident.	N Obs.	NGE	SD	Bias	B	E	T	W	Comments
ZCBE7 §	115	0	71.3	2.2	3	0	0	0	Erratic
3EMW5 *§	66	33	77.7	-15.6	1	0	1	0	Gross errors
3FSL4 §	155	1	74.9	8.6	3	1	1	1	Erratic

TABLE 8: LIST OF PLATFORMS REPORTING IN SHIP CODE NOT APPEARING IN TABLE 7 BUT LISTED AS SUSPECT OVER THE PERIOD JANUARY TO JUNE 1997.

Column 1 Call sign or identifier.

Column 2 Number of wind direction observations available for monitoring over the 6-month period,excluding duplicates, but including any observations with gross errors.

Column 3 Number of wind observations with vector difference from background of more than 25ms^{-1} (gross error).

Column 4 Standard deviation of observation-minus-background differences excluding cases of gross error.

Column 5 Mean of observation-minus-background differences (bias) excluding cases of gross error.

Column 6 Comments on quality of wind direction observations.

Notes: 1. Units are degrees (°).

Ident.	N Obs.	NGE	SD	Bias	Comments
DVFS	38	0	42.7	2.3	Less than 40 reports; no longer erratic
DVHE	0				No reports
UVGF	235	2	40.2	-0.8	No longer erratic

TABLE 9: LIST OF MARINE OBSERVING PLATFORMS REPORTING SUSPECT SEA-SURFACE TEMPERATURE OBSERVATIONS OVER THE PERIOD JULY TO DECEMBER 1997.

Column 1 Call sign or identifier

Column 2 Number of sea-surface temperature observations available for monitoring over the 6-month period, including any observations with gross errors.

Column 3 Number of sea surface temperature observations differing by more than 5°C from the analysis (gross errors).

Column 4 Standard deviation of observation-minus-analysis differences excluding cases of gross error.

Column 5 Mean of observation-minus-analysis differences excluding cases of gross error.

Column 6 Comments on quality of sea surface temperature observations.

Notes:

1. Units are °C.
2. Observing platforms marked with an asterisk were listed in the previous report (January to June 1997)

Table 9a: Platforms reporting in BUOY code

*i): Platforms **non-operational** at the end of the reporting period*

Ident.	N Obs.	NGE	SD	Bias	Comments
21927	394	115	2.2	0.8	Gross errors; erratic
21939	65	0	0.7	2.9	Bias
23946	161	127	2.9	0.3	Gross errors
33501	236	166	2.8	0.2	Gross errors; erratic
41528	74	44	2.5	-1.1	Gross errors
41619	300	141	0.5	-0.9	Gross errors; bias -7 °C from Aug
41919	424	93	1.4	2.2	Gross errors; bias
44926	694	144	2.4	-1.0	Erratic
46958	275	49	2.6	0.2	Erratic
51685	68	15	2.2	-1.5	Erratic
56609	241	66	1.2	-0.4	Gross errors; erratic from Sep
61517	50	22	2.9	0.3	Gross errors; erratic
61569	47	15	3.4	-0.9	Gross errors; erratic
61582	387	180	3.0	-0.5	Gross errors; erratic
61591	439	166	1.5	-1.0	Gross errors

*ii): Platforms **operational** at the end of the reporting period*

Ident.	N Obs.	NGE	SD	Bias	Comments
15534	334	34	1.1	-2.6	Bias
15537	246	0	0.3	4.0	Bias
15538	263	115	0.0	4.8	Gross errors; bias
17536	207	139	2.7	0.1	Gross errors; erratic
21535	452	184	2.8	-1.2	Gross errors

Table 9b: Platforms reporting in SHIP code

Ident.		N Obs.	NGE	SD	Bias	Comments
CTFE		65	26	0.6	-3.9	Gross errors; bias
C6BT8		76	21	2.8	0.7	Gross errors; erratic
C6FA7	*	192	5	0.9	2.4	Bias
C6IM2		45	7	0.7	3.3	Bias
C6KJ5		165	3	1.1	2.4	Bias
C6MS4		91	5	1.6	-1.9	Bias -3 °C from Sep
C6T2064		133	39	1.2	-1.5	Gross errors
C6YY		88	2	1.2	-2.7	Bias
DS6ESD	*	90	11	0.7	3.0	Bias
DURY	*	193	19	0.9	2.9	Bias
DZDI	*	60	30	0.7	-3.9	Gross errors; bias
ELBG9	*	124	1	0.5	-3.0	Bias
ELDU4		52	51	0.0	-4.2	Gross errors
ELKU8		86	28	1.2	2.7	Gross errors
ELMV6	*	60	13	0.7	2.9	Gross errors
ELOW4		266	126	1.2	0.9	Gross errors from Oct
ELRH7		105	9	0.9	2.9	Bias
ELRT		50	2	0.8	-3.2	Bias
ELRT3	*	172	3	0.8	-3.3	Bias
JADY	*	182	13	0.7	3.6	Bias
KBGK	*	185	10	0.5	-3.8	Bias
KGJB	*	232	163	1.2	-3.6	Gross errors
KIOH	*	227	11	0.9	-2.7	Bias
KLKZ	*	82	3	1.1	2.6	Bias
KNFG	*	198	10	0.9	-3.7	Bias
KNLO	*	103	69	1.0	-3.4	Gross errors; bias
KRGJ		124	6	1.3	-2.2	Bias
KSPH	*	150	3	1.5	-2.2	Bias
LADR4	*	40	0	0.3	3.3	Bias
LAHG2		149	18	1.5	2.1	Bias
LASS2		49	35	2.1	-1.9	Gross errors
LAVV4		162	48	1.6	-1.9	Gross errors from Oct
LF4C		499	155	0.7	0.2	Gross errors
NFMK	*	57	21	2.0	2.0	Gross errors
P3NF5		42	12	1.1	-3.3	Bias
SFRZ		131	12	1.2	2.7	Bias
S6ES	*	158	9	0.8	3.0	Bias
UCJD		76	10	1.1	2.5	Bias
UCMV		73	37	1.3	-2.9	Gross errors
UCNA	*	112	1	1.1	-2.3	Bias

Continued →

Ident.		N Obs.	NGE	SD	Bias	Comments
UCOJ	*	67	48	1.6	-2.9	Gross errors
UCPQ		67	2	0.9	-2.7	Bias
UFYN		79	5	1.2	-2.4	Bias
UIRN		42	8	1.4	-3.0	Bias
UMTC		81	4	1.3	2.9	Bias
VCRJ	*	115	6	1.9	1.8	Bias +3 °C from Nov
VJIK		48	4	1.2	-2.5	Bias
VJRB	*	76	0	1.1	-2.5	Bias
VOLG	*	915	823	0.9	-3.4	Gross errors; bi-weekly cycle persists
VROP		177	30	1.2	-3.3	Bias
VRUO7		98	5	0.9	3.3	Bias
VRUY4		345	9	0.8	-2.4	Bias
WA4659		543	65	1.5	-2.7	Bias
WCJY	*	109	9	0.7	2.8	Bias
WC5932		94	17	2.1	-2.2	Bias -3 °C from Aug
WRFJ		70	6	1.2	2.5	Bias
WRGY		63	25	0.7	-2.8	Gross errors
WRYC		46	1	0.6	-2.6	Bias
WSRL		212	0	1.3	-2.6	Bias
XYKW		68	42	2.6	1.0	Gross errors
YJYY2	*	216	12	0.7	-3.6	Bias
YJZC5	*	344	85	1.2	-3.4	Bias
ZCAV6	*	359	33	1.0	-3.4	Bias
3EBW4		161	8	1.1	2.5	Bias
3ECM7	*	338	20	1.4	2.6	Bias
3ELY7	*	521	126	1.4	0.8	Gross errors
3EPB6	*	58	2	1.0	2.3	Bias
3ESF7		107	10	0.8	3.6	Bias
3EWK8		52	8	0.8	3.4	Bias
3FMA4		86	21	1.9	-2.4	Bias
44137	*	3274	131	0.8	2.6	Bias; rather erratic later
45144	*	730	730	****	****	Gross errors
46030		1001	23	1.1	-3.1	Bias
62128		119	119	****	****	Gross errors
62304		4578	1486	0.5	0.0	Gross errors from Nov; bias
63111		524	180	2.0	-0.5	Gross errors; erratic from Dec
9KKS	*	247	70	0.6	-3.9	Bias
9MBE4		177	45	2.4	1.4	Gross errors; erratic
9VHJ	*	98	68	1.5	-1.7	Gross errors from Sep
9VOQ		45	2	1.3	2.5	Bias

TABLE 10: LIST OF PLATFORMS REPORTING IN SHIP CODE NOT APPEARING IN TABLE 9 BUT LISTED AS SUSPECT OVER THE PERIOD JANUARY TO JUNE 1997.

Column 1 Call sign or identifier

Column 2 Number of sea-surface temperature observations available for monitoring over the 6-month period, including any observations with gross errors.

Column 3 Number of sea surface temperature observations differing by more than 5°C from the analysis (gross errors).

Column 4 Standard deviation of observation-minus-analysis differences excluding cases of gross error.

Column 5 Mean of observation-minus-analysis differences excluding cases of gross error.

Column 6 Comments on quality of sea surface temperature observations.

Notes: 1. Units are °C.

Ident.	N Obs.	NGE	SD	Bias	Comments
DDLH	212	8	1.7	0.6	No longer biased
DNGB	0				No reports
DULR	9	2	2.8	1.1	Few reports
DUZH	0				No reports
DVDM	198	5	1.1	1.8	Bias reduced
DZCAW7D	58	16	2.6	-1.3	Gross errors ceased from Aug
ELBM9	17	2	1.5	2.5	Less than 40 reports; bias persists
ELRY5	29	1	1.8	1.4	Less than 40 reports; GE + bias ceased
JPPT	0				No reports
J8FI5	0				No reports
KLPN	0				No reports
LF3N	956	73	0.7	0.6	Gross errors ceased from Nov
PDCR	5	0	1.9	-1.3	Few reports
PDJS	77	0	0.6	-0.6	No longer biased
SDIA	0				No reports
SFMN	83	4	1.9	-0.5	Gross errors ceased
UCCI	27	2	2.0	0.7	Less than 40 reports; Gross errors ceased
UCMR	170	0	1.3	-1.1	Gross errors ceased; No longer erratic
UDVY	35	33	0.2	1.9	Less than 40 reports; Gross errors persist
VRKC	1	1	****	****	Single report
VRVA7	284	1	1.3	0.9	No longer erratic
VTKB	6	0	0.8	2.7	Few reports
V2AC3	11	4	1.3	1.5	Less than 40 reports; No longer biased
V2TI	153	2	1.2	2.0	Bias reduced
WAFA	38	1	0.6	4.0	Less than 40 reports; bias persists
WYP8657	167	20	1.9	0.0	Gross errors ceased; No longer biased from Sep
3EIP3	153	3	0.8	-2.3	Bias reduced
3EKL8	0				No reports
3FIO6	0				No reports
3FWI3	1	0	0.0	-1.3	Single report

Continued →

Ident.	N Obs.	NGE	SD	Bias	Comments
44141	4791	8	2.0	-1.6	Gross errors ceased
45003	1089	53	1.0	-1.0	No longer biased from Sep
62129	37	37	****	****	Less than 40 reports; Gross errors persist
9MTU	70	17	1.7	0.4	Gross errors ceased; No longer biased
9VOP	33	3	2.1	1.3	Less than 40 reports; Gross errors ceased
9VUM	2993	215	1.5	2.4	No longer biased from Nov

Figure 1: Number of observations of pressure received at Bracknell on the GTS for each of the six-month periods covered by the WMO reports on the quality of marine observations

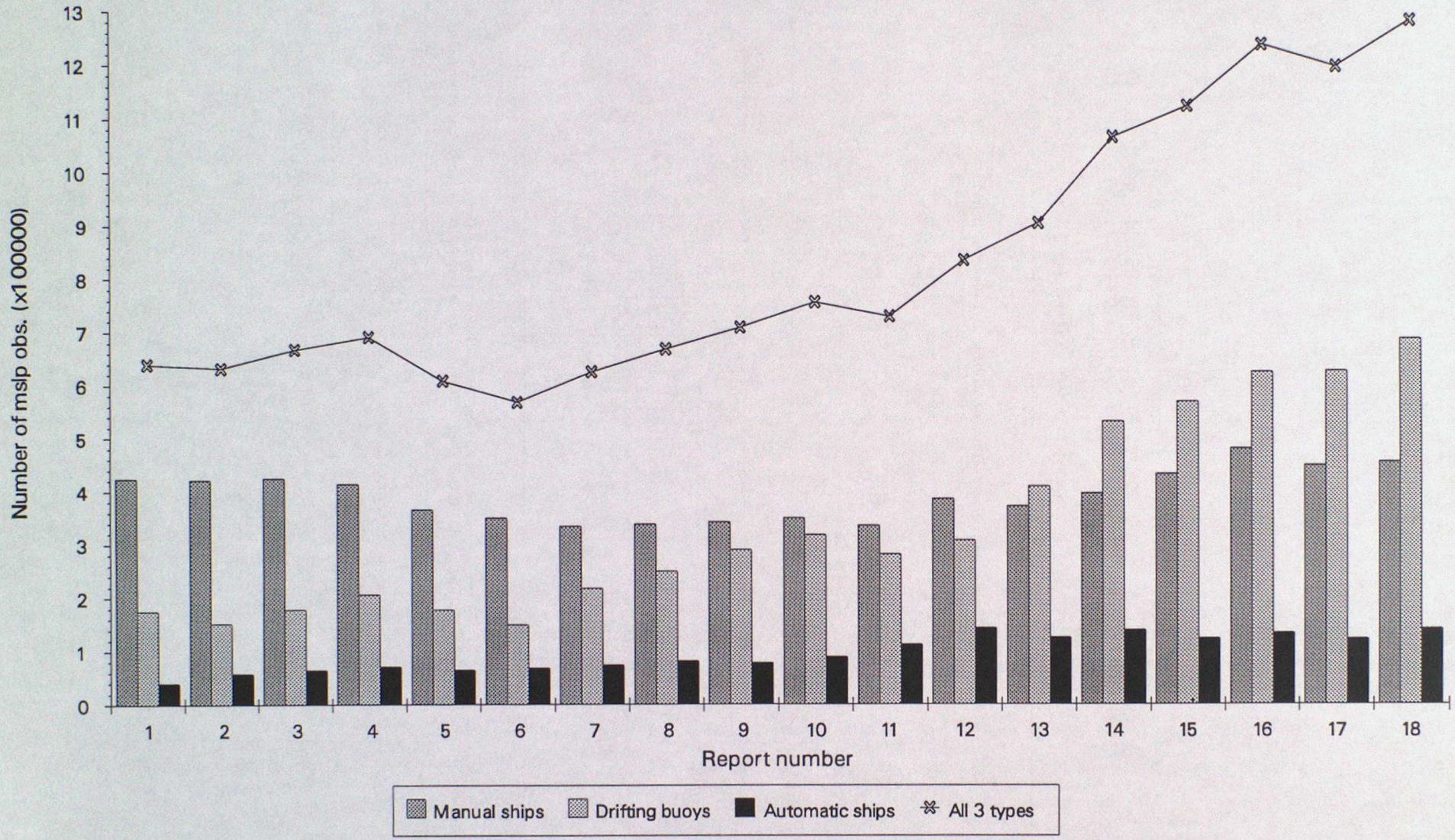
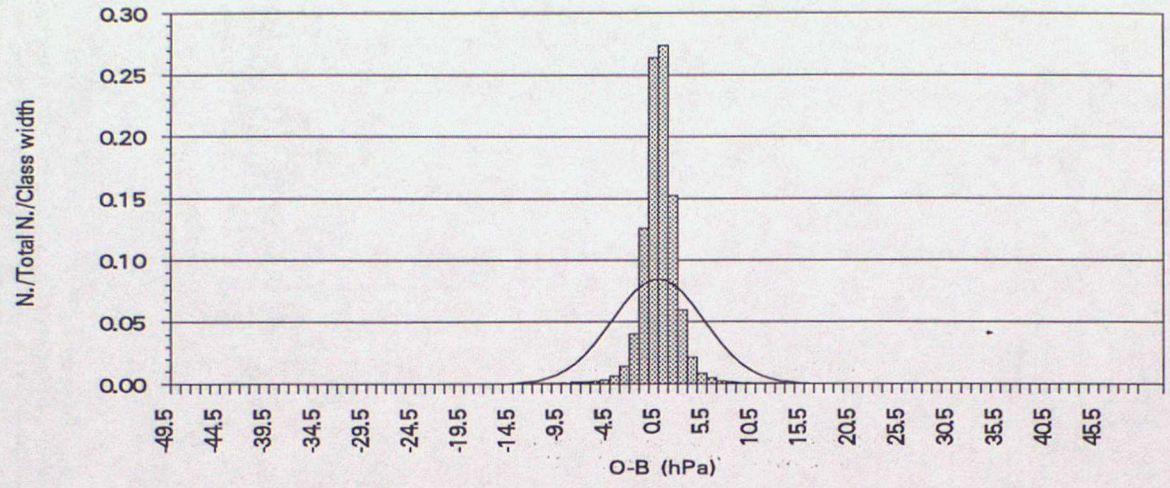
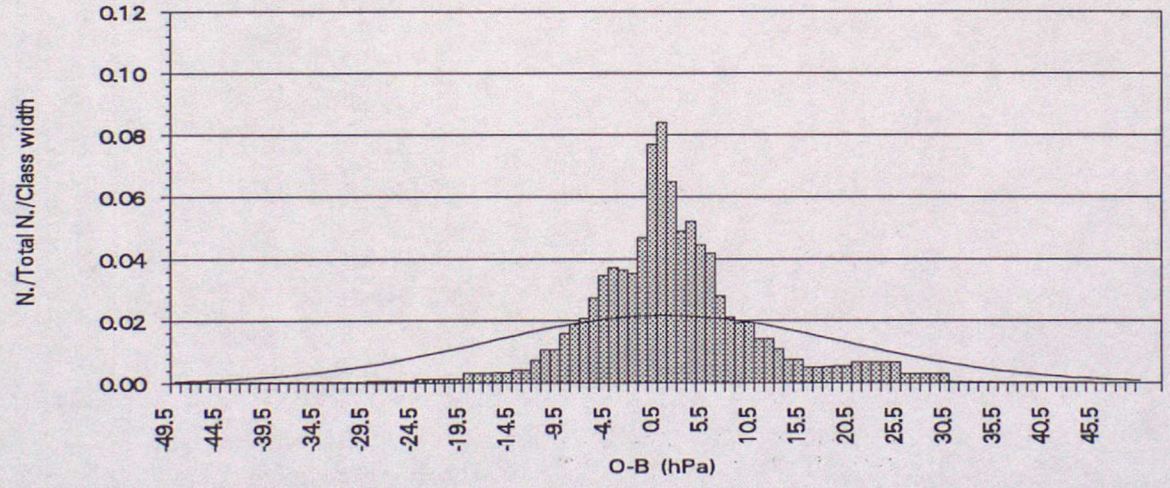


Figure 2a: Distribution of ship O-B pressure (hPa)
Period of data: Jul Dec 1997 Data used: All observations



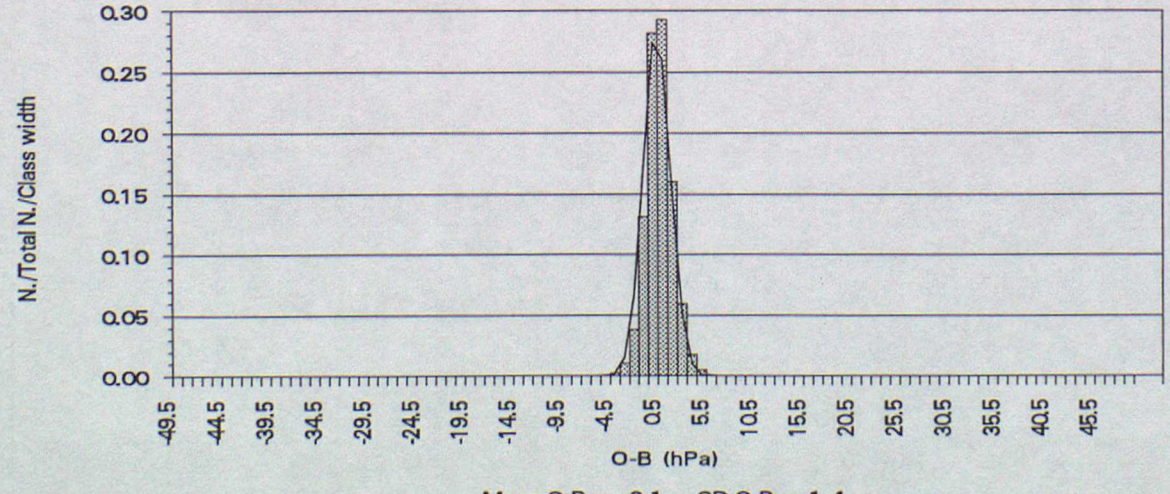
Mean O-B = 0.0 SD O-B = 4.7

Figure 2b: Distribution of ship O-B pressure (hPa)
Period of data: Jul-Dec 1997 Data used: Flagged observations



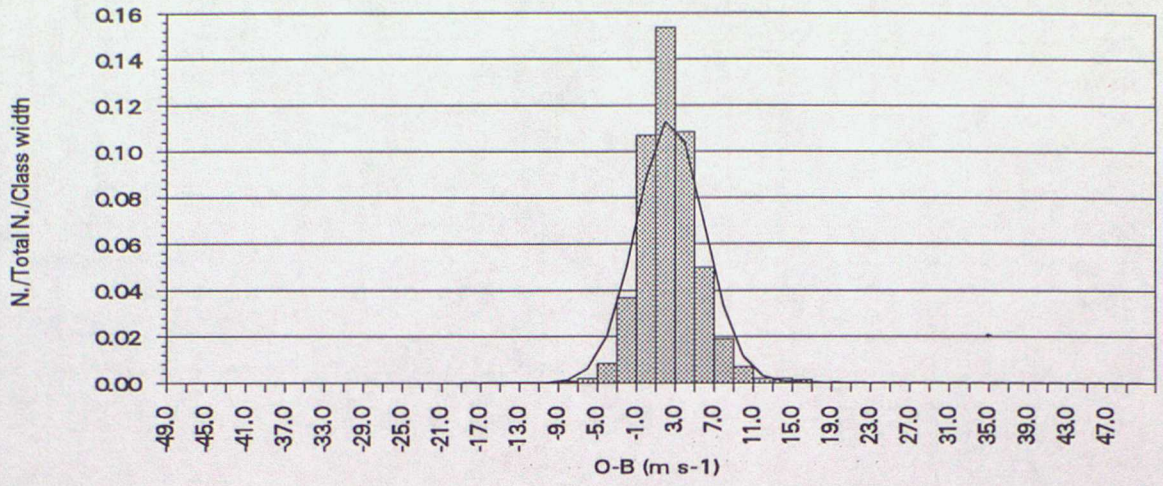
Mean O-B = 0.9 SD O-B = 18.5

Figure 2c: Distribution of ship O-B pressure (hPa)
Period of data: Jul-Dec 1997 Data used: Unflagged observations



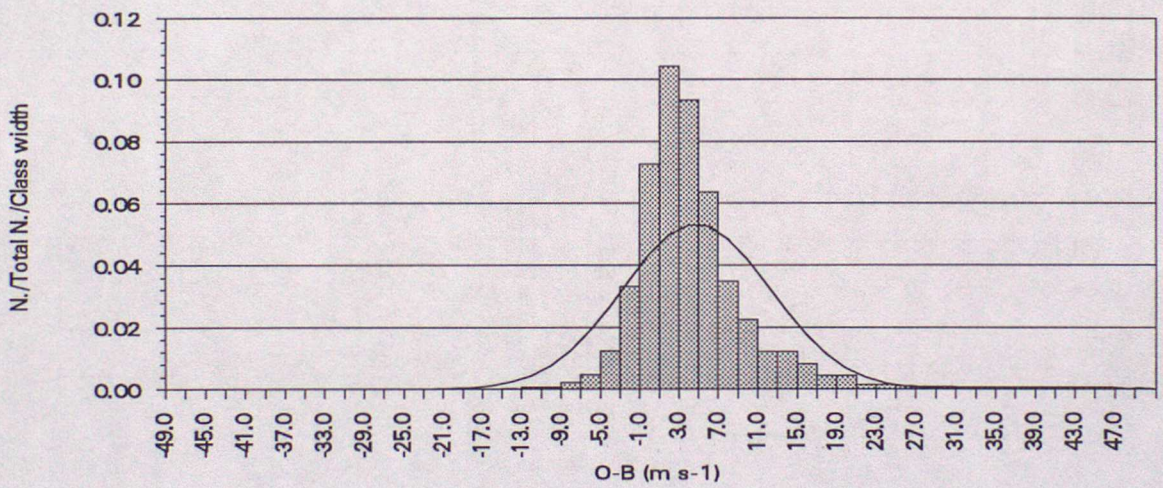
Mean O-B = -0.1 SD O-B = 1.4

Figure 2d: Distribution of ship O-B wind speed (m s-1)
Period of data: Jul-Dec 1997 Data used: All observations



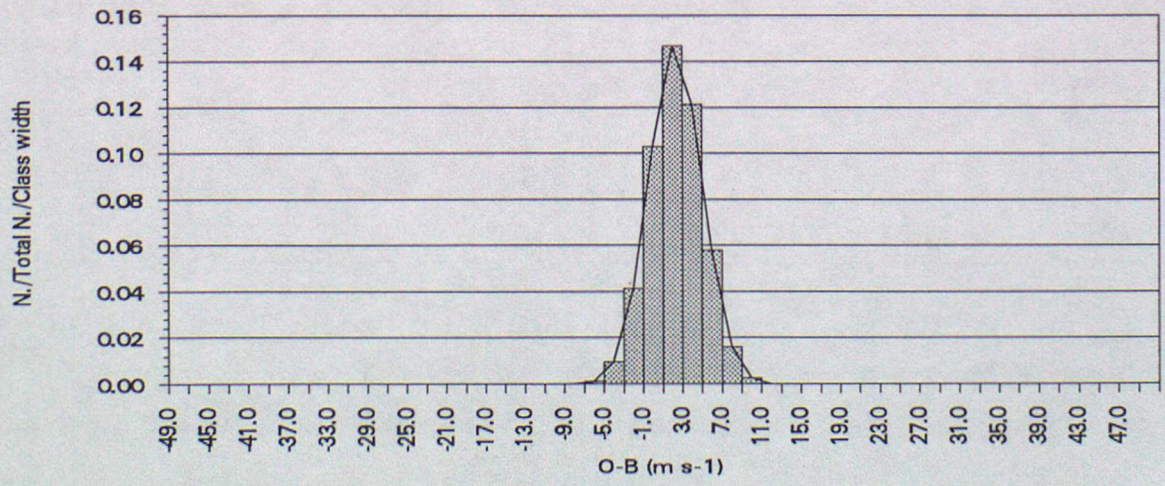
Mean O-B = 1.5 SD O-B = 3.5

Figure 2e: Distribution of ship O-B wind speed (m s-1)
Period of data: Jul-Dec 1997 Data used: Flagged observations



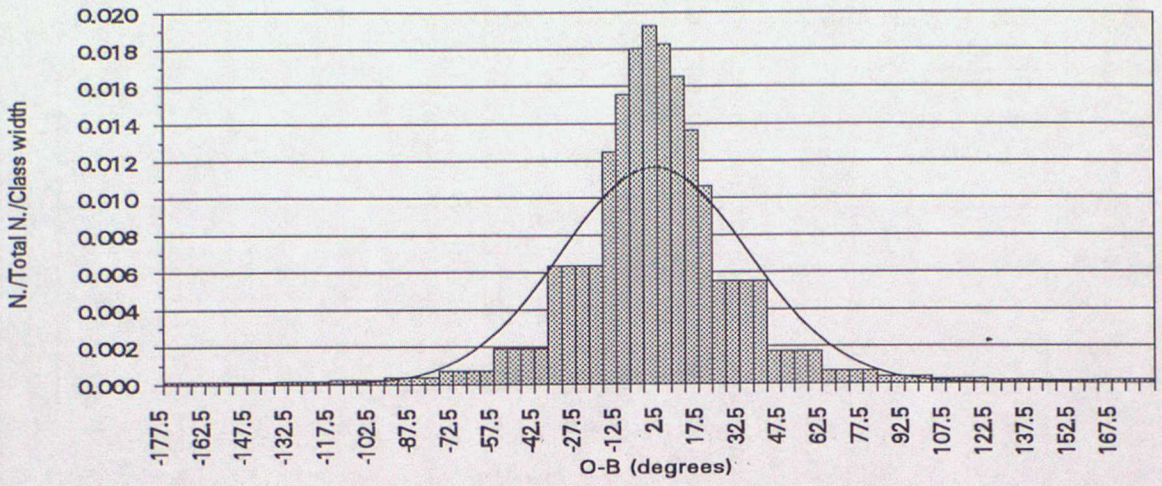
Mean O-B = 3.8 SD O-B = 7.5

Figure 2f: Distribution of ship O-B wind speed (m s-1)
Period of data: Jul-Dec 1997 Data used: Unflagged observations



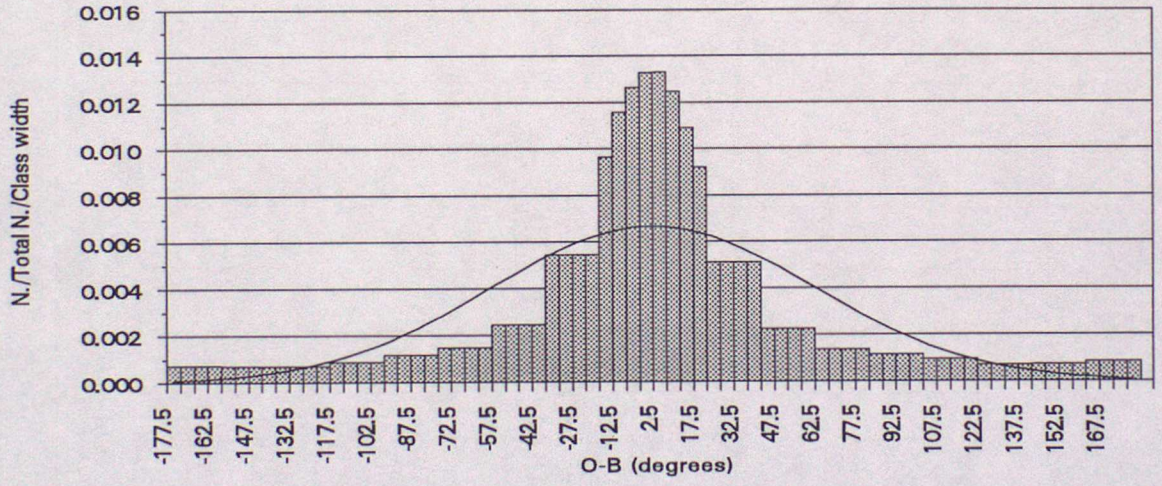
Mean O-B = 1.3 SD O-B = 2.7

Figure 2g: Distribution of ship O-B wind direction (degrees)
Period of data: Jul-Dec 1997 Data used: All observations



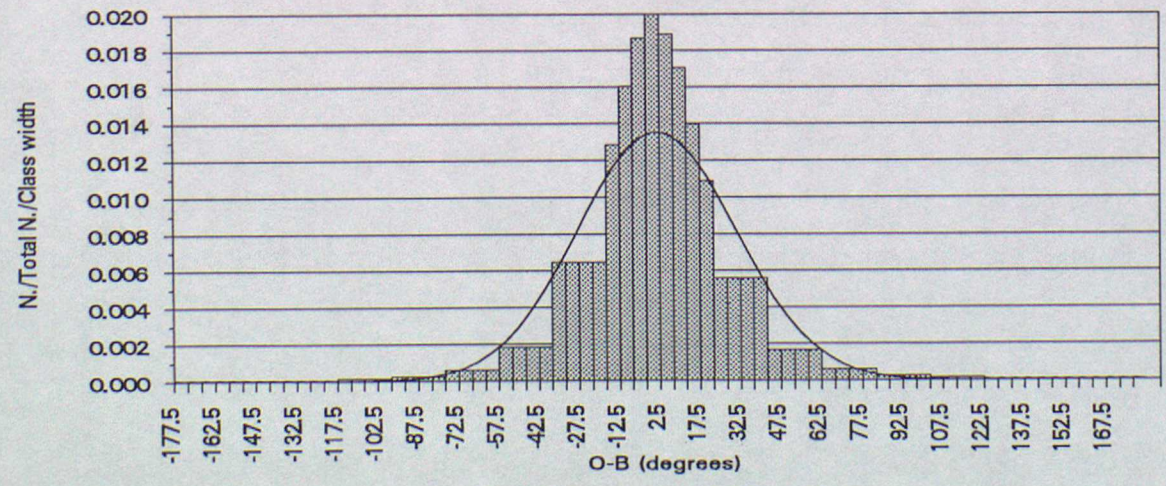
Mean O-B = -0.9 SD O-B = 34.2

Figure 2h: Distribution of ship O-B wind direction (degrees)
Period of data: Jul-Dec 1997 Data used: Flagged observations



Mean O-B = -0.2 SD O-B = 59.9

Figure 2j: Distribution of ship O-B wind direction (degrees)
Period of data: Jul-Dec 1997 Data used: Unflagged observations



Mean O-B = -1.0 SD O-B = 29.5

FIG 3: BIAS OF SHIP PRESSURE O–B. DATE:– JULY – DECEMBER 1997
ONLY OBSERVATIONS PASSING QUALITY CONTROL USED IN STATISTICS
CONTOURS DRAWN TO 10 DEGREE BOXES IF N. OF OBS > 10
AREAS SHADED HAVE BIAS OF MAGNITUDE GREATER THAN 0.5 HPA

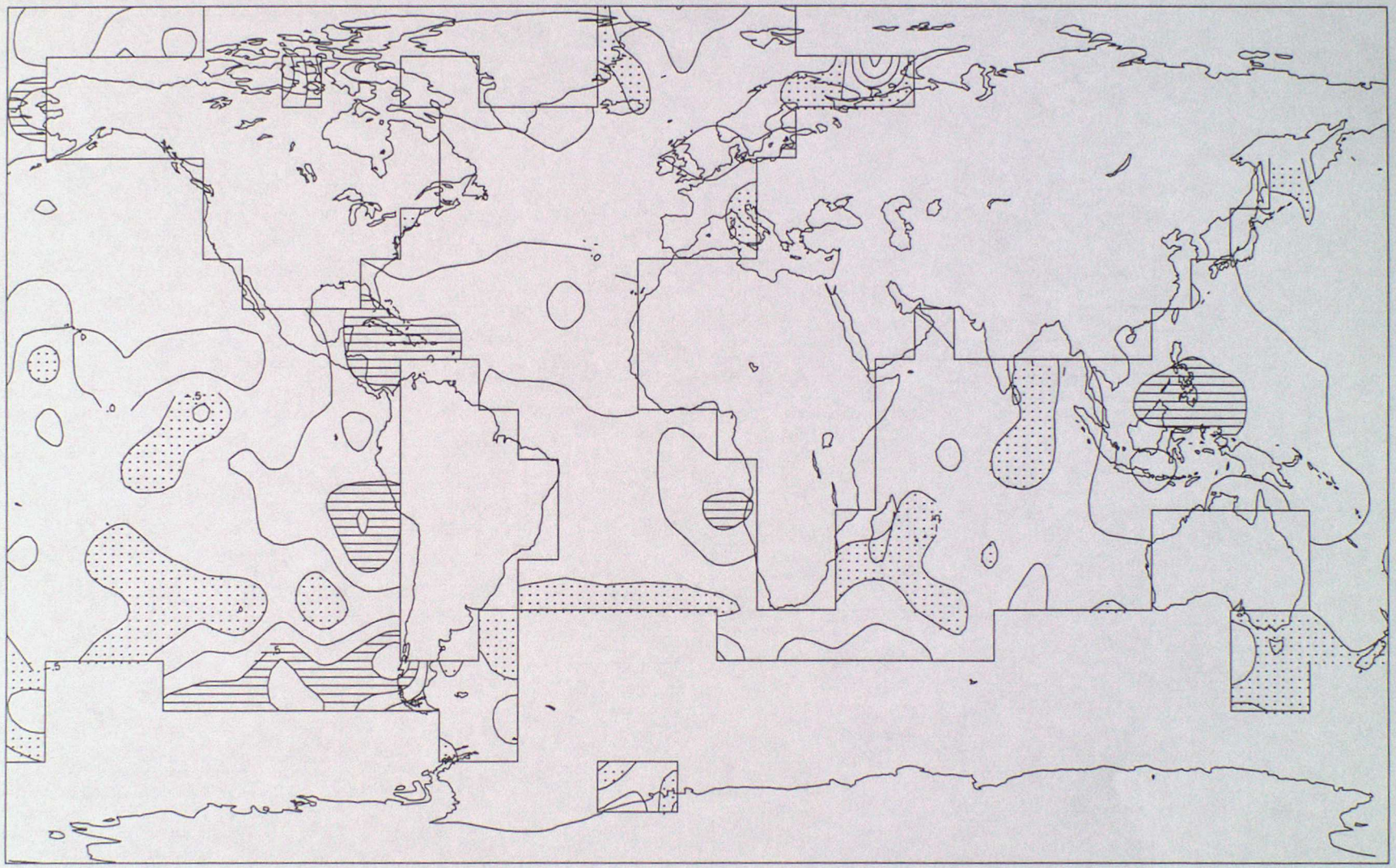


FIG 4: S.D. OF SHIP PRESSURE O–B. DATE:– JULY – DECEMBER 1997
ONLY OBSERVATIONS PASSING QUALITY CONTROL USED IN STATISTICS
CONTOURS DRAWN TO 10 DEGREE BOXES IF N. OF OBS > 10
AREAS SHADED HAVE STANDARD DEVIATION GREATER THAN 2.0HPA

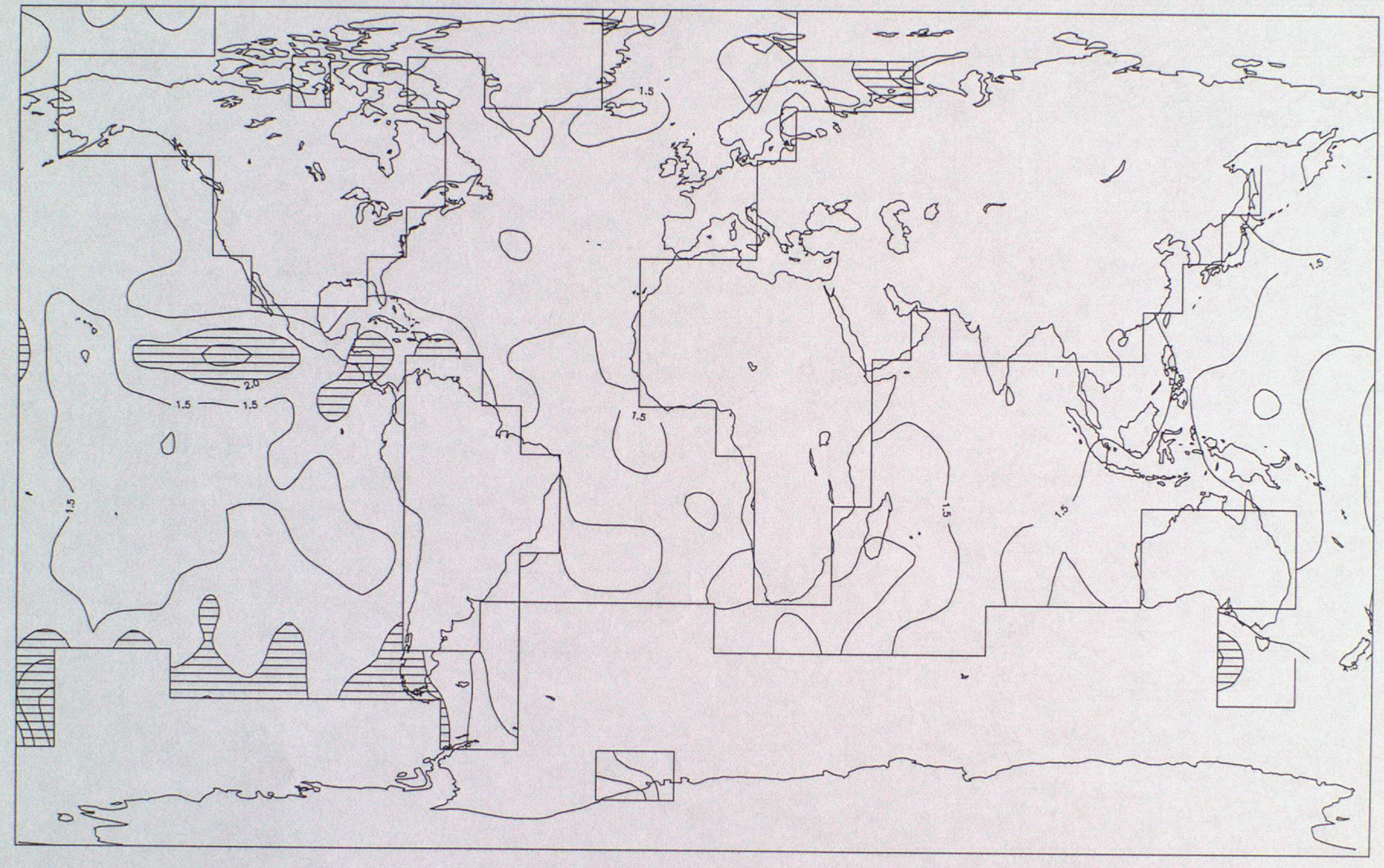


FIG 5:
PLOT OF NUMBER OF SHIP PRESSURE OBS. DATE:– JULY – DECEMBER 1997
ONLY OBSERVATIONS PASSING QUALITY CONTROL INCLUDED

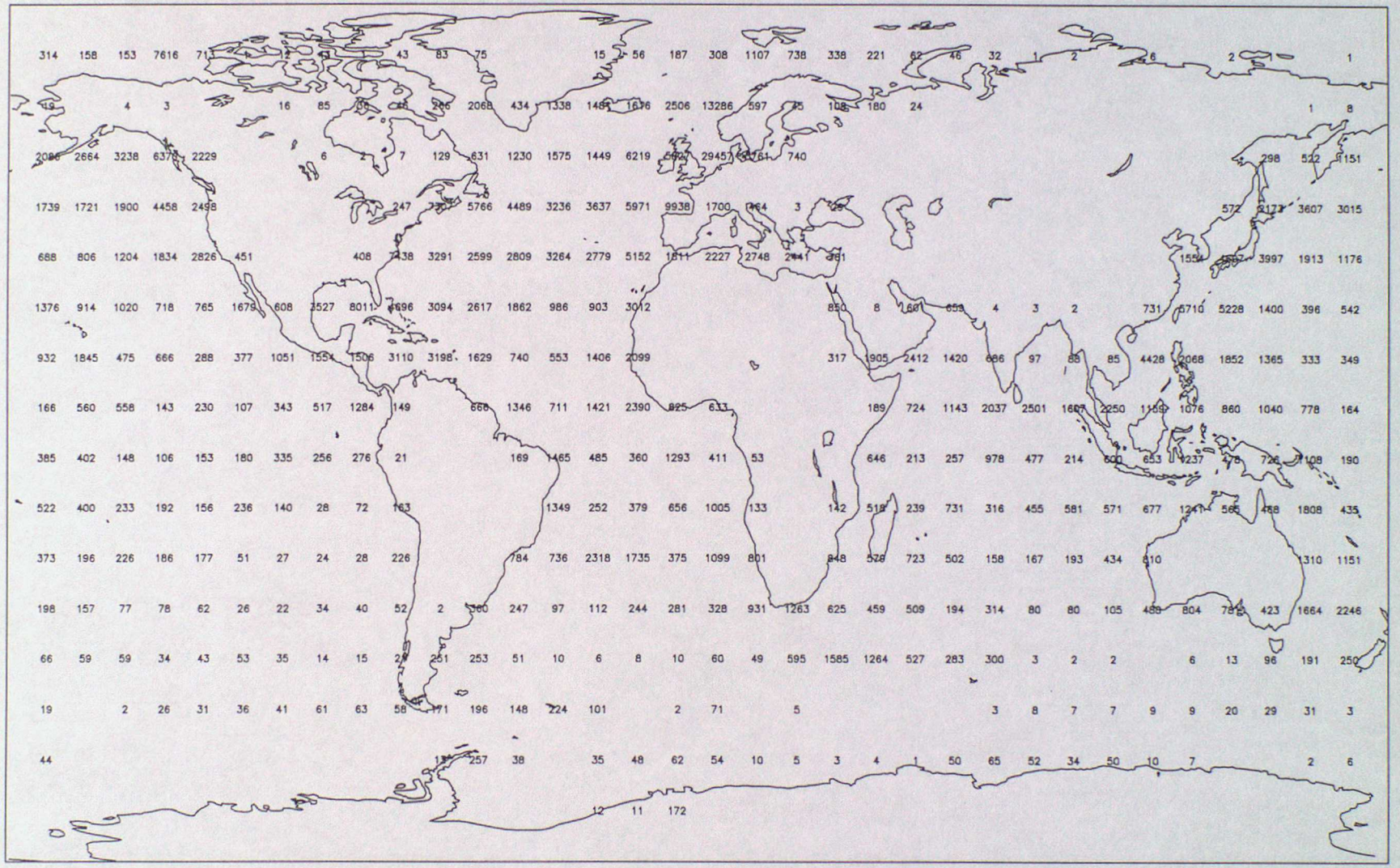


FIG 6: BIAS OF SHIP O−B WIND SPEED IN MS−1. DATE:− JULY − DECEMBER 1997
ONLY OBSERVATIONS PASSING QUALITY CONTROL USED IN STATISTICS
CONTOURS DRAWN TO 10 DEGREE BOXES IF N. OF OBS > 10
AREAS SHADED HAVE BIAS OF MAGNITUDE GREATER THAN 2.0MS−1

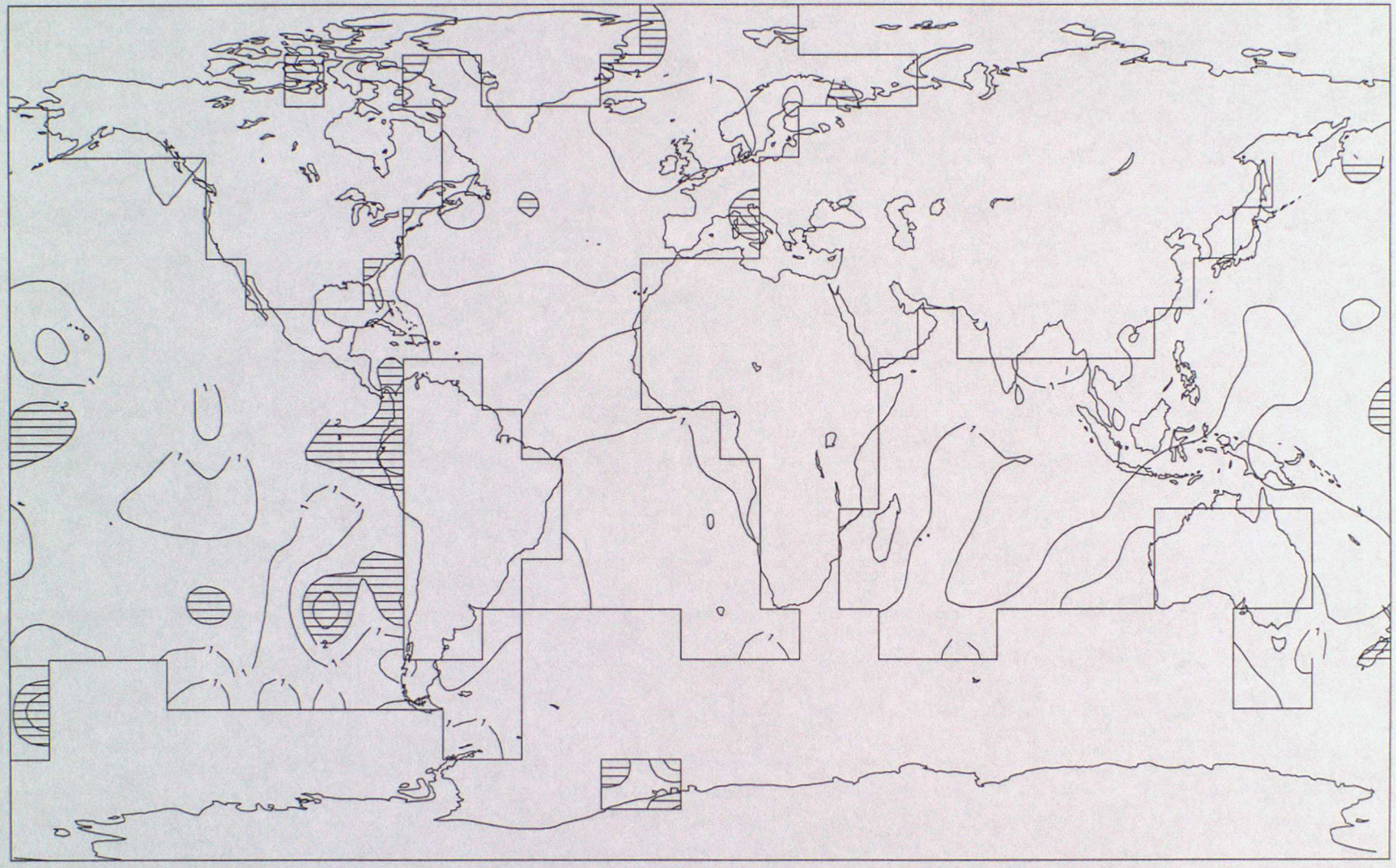


FIG 7: S.D. OF SHIP O−B WIND SPEED IN MS−1. DATE:− JULY − DECEMBER 1997
ONLY OBSERVATIONS PASSING QUALITY CONTROL USED IN STATISTICS
CONTOURS DRAWN TO 10 DEGREE BOXES IF N. OF OBS > 10
AREAS SHADED HAVE STANDARD DEVIATION GREATER THAN 4.0 MS−1

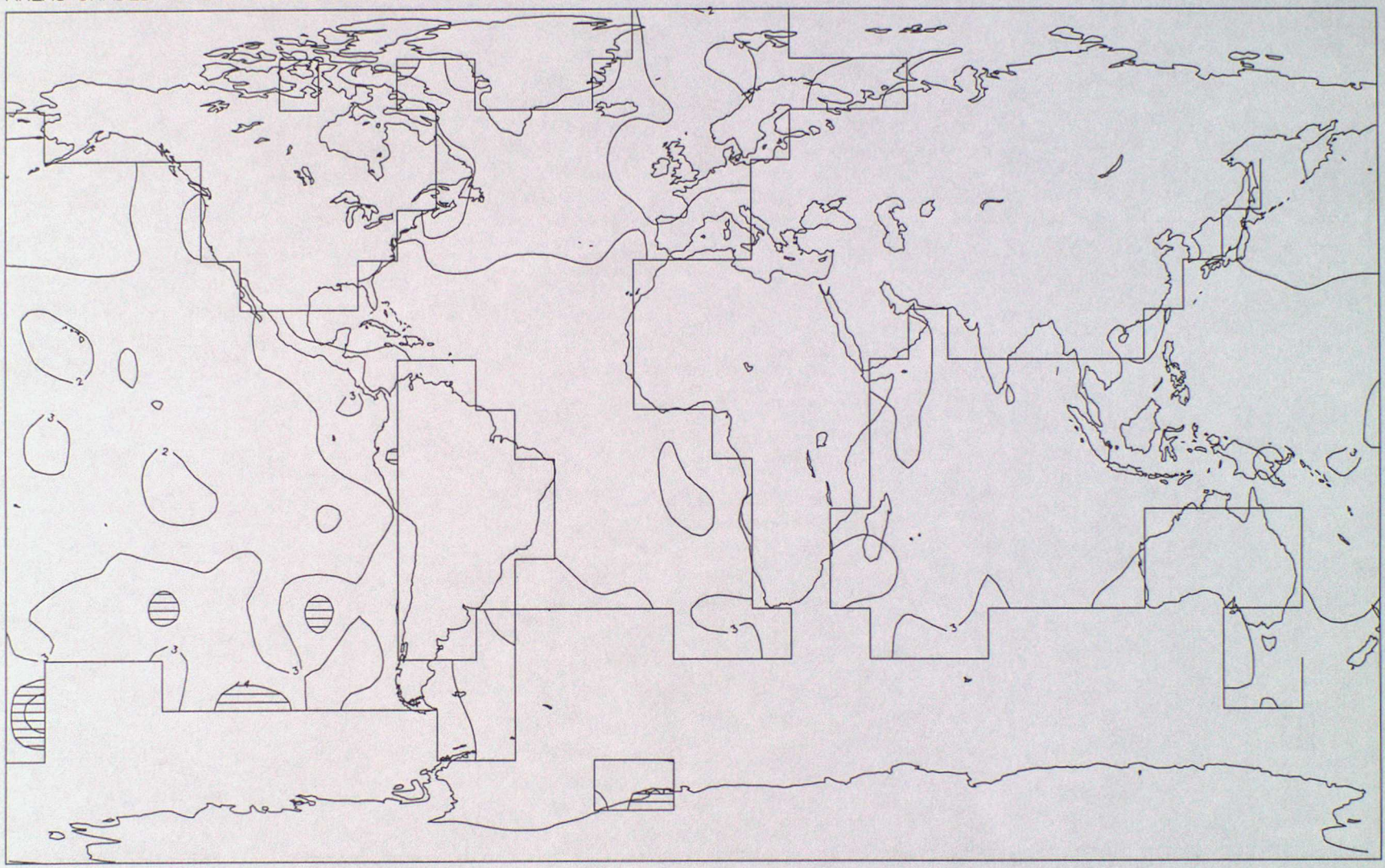


FIG 8:
PLOT OF NUMBER OF SHIP WIND SPEED OBS. DATE:– JULY – DECEMBER 1997
ONLY OBSERVATIONS PASSING QUALITY CONTROL INCLUDED

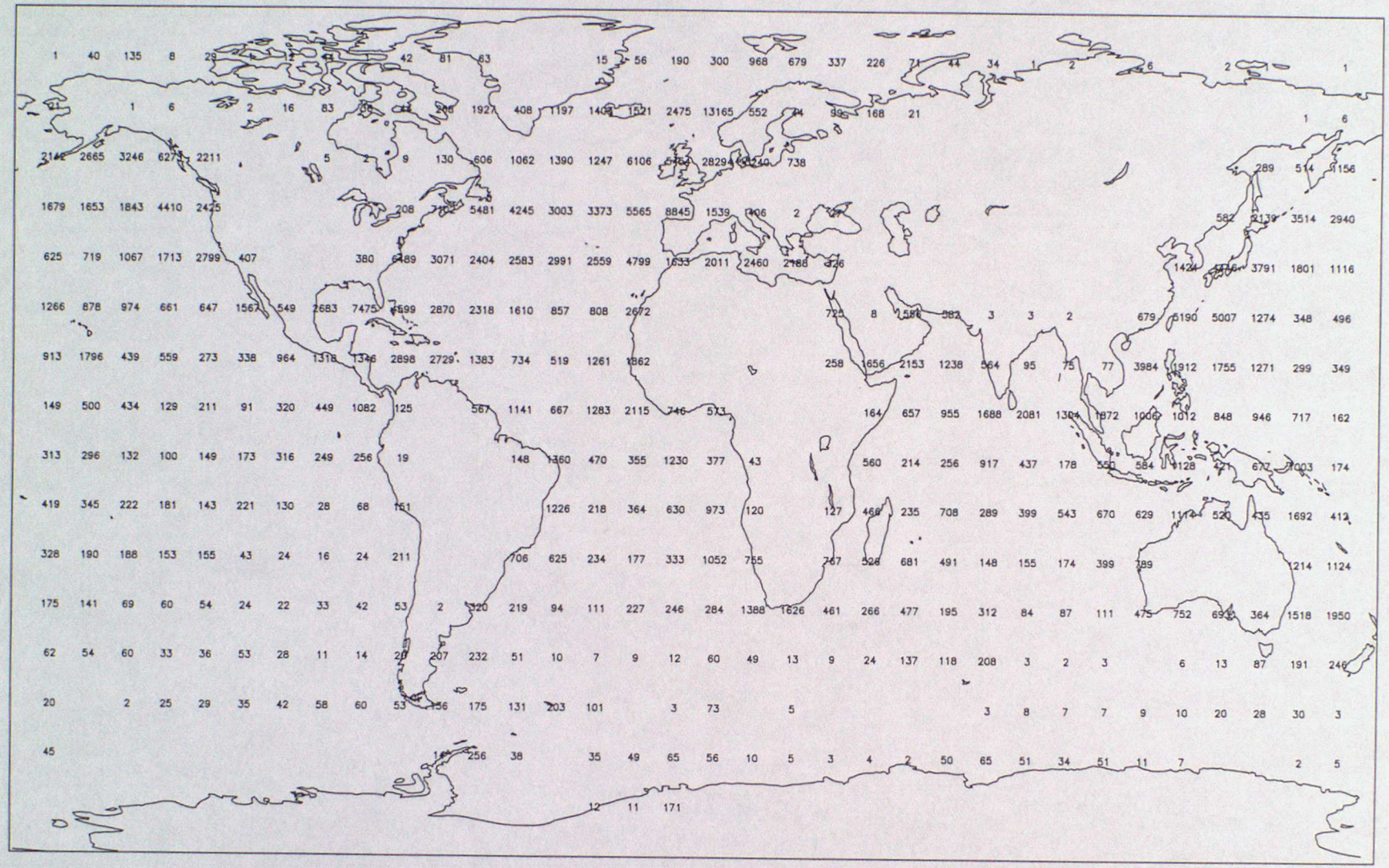


FIG 9: BIAS OF SHIP O−B WIND DIRECTION IN DEG. DATE:− JULY − DECEMBER 1997
ONLY OBSERVATIONS PASSING QUALITY CONTROL USED IN STATISTICS
CONTOURS DRAWN TO 10 DEGREE BOXES IF N. OF OBS > 10
AREAS SHADED HAVE BIAS OF MAGNITUDE GREATER THAN 10 DEG

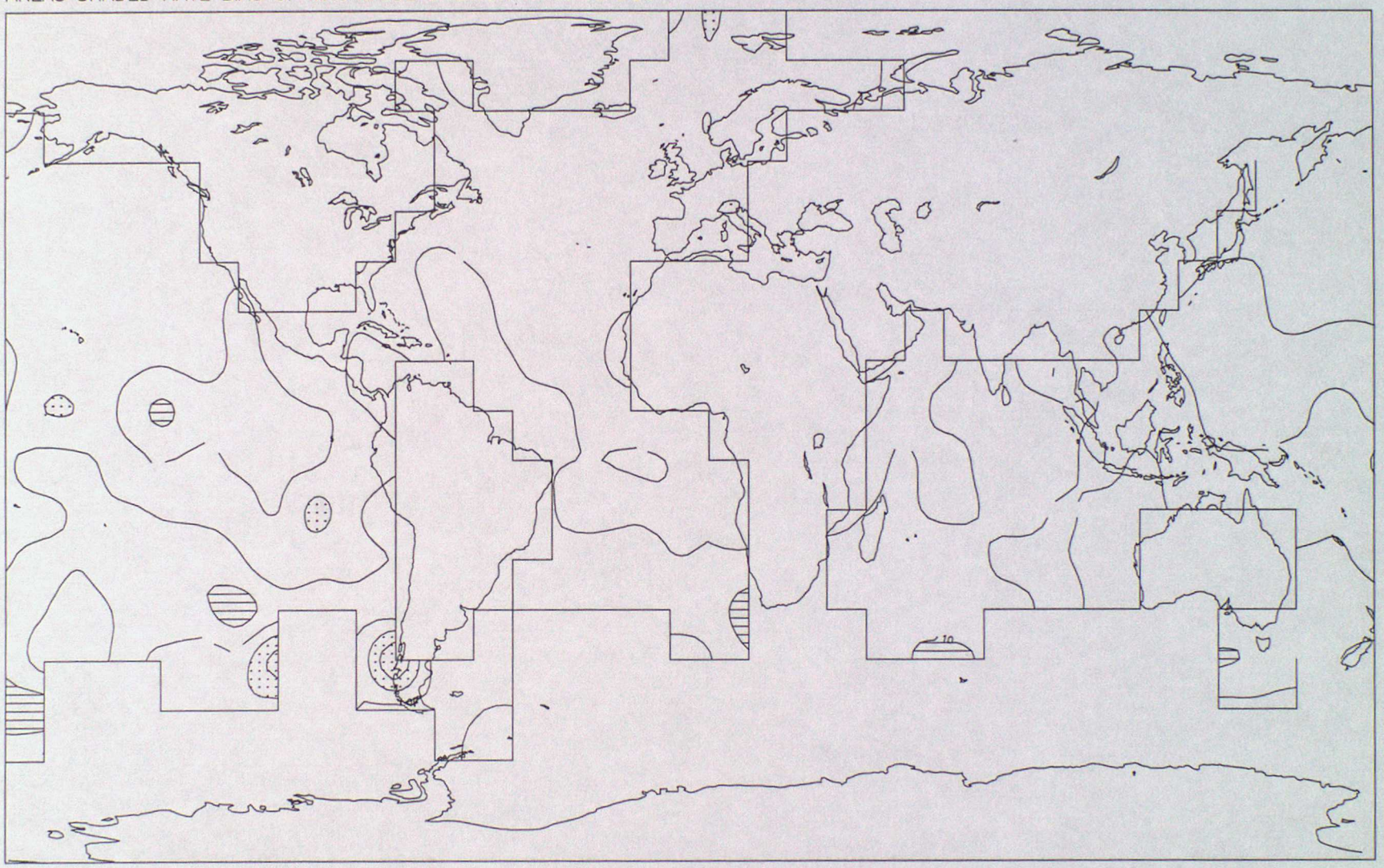


FIG 10: S.D. OF SHIP O−B WIND DIRECTION IN DEG. DATE:− JULY − DECEMBER 1997
ONLY OBSERVATIONS PASSING QUALITY CONTROL USED IN STATISTICS
CONTOURS DRAWN TO 10 DEGREE BOXES IF N. OF OBS > 10
AREAS SHADED HAVE STANDARD DEVIATION GREATER THAN 40 DEG

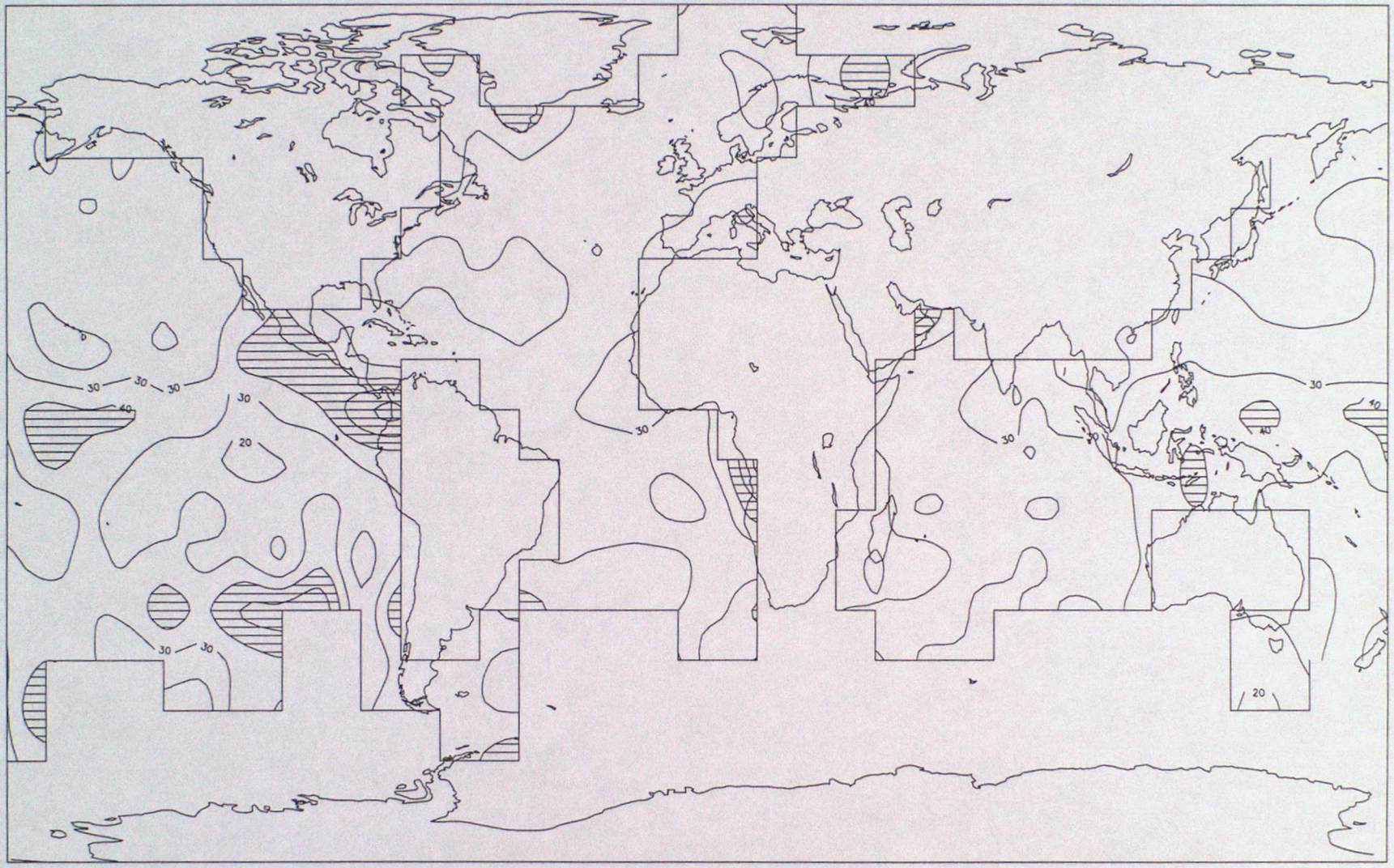


FIG 11:
PLOT OF NUMBER OF SHIP WIND DIRECTION OBS. DATE:– JULY – DECEMBER 1997
ONLY OBSERVATIONS PASSING QUALITY CONTROL INCLUDED

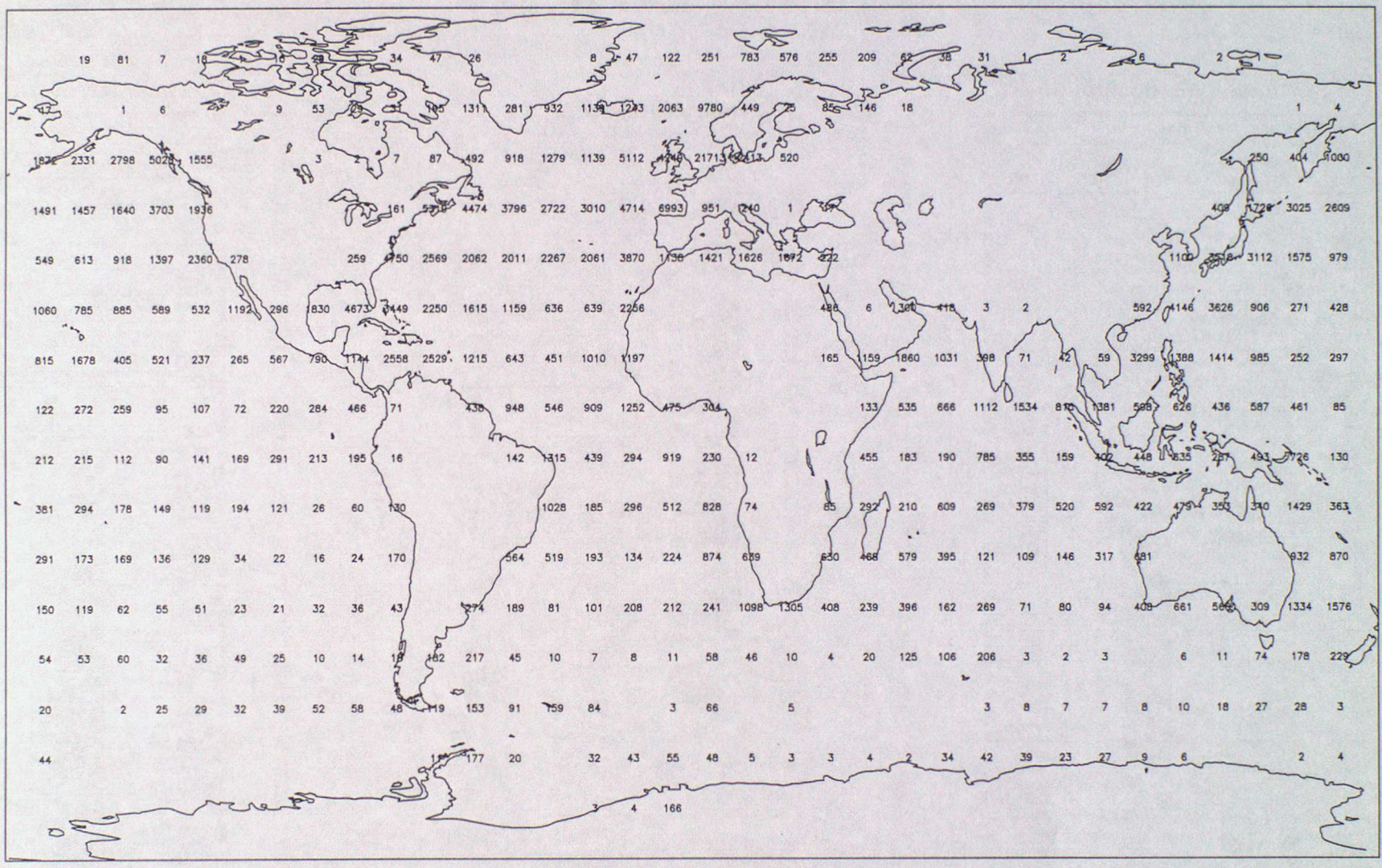


Figure12:

Sea surface temperature statistics for each observation type, for northern and southern hemisheres, July to December 1997

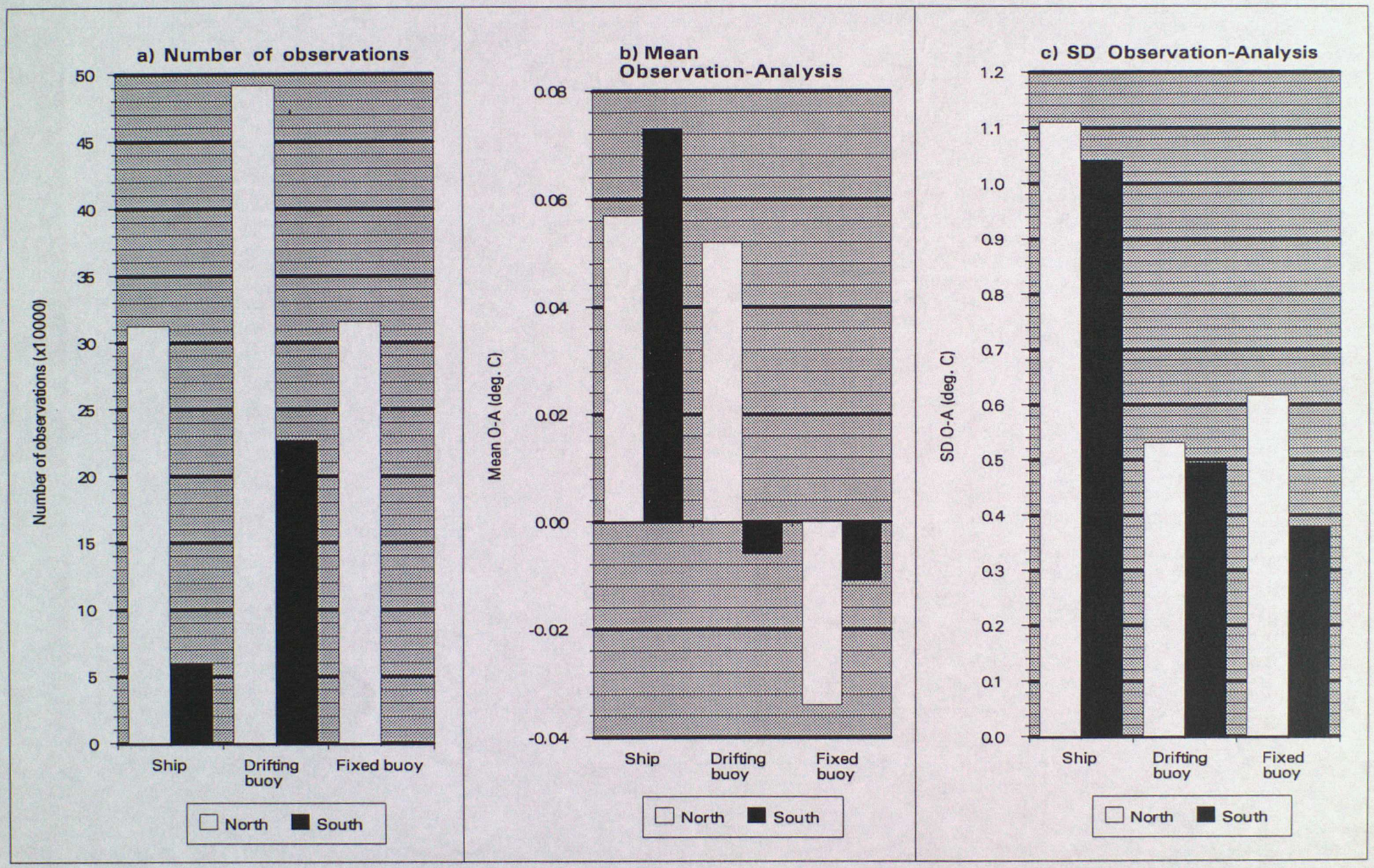


FIG 13: BIAS OF SHIP SEA SURFACE TEMPERATURES (O–A) IN DEG C
DATE:– JULY – DECEMBER 1997
ONLY OBSERVATIONS PASSING QUALITY CONTROL USED IN STATISTICS
CONTOURS PLOTTED AT INTERVALS OF 0.2 DEG C

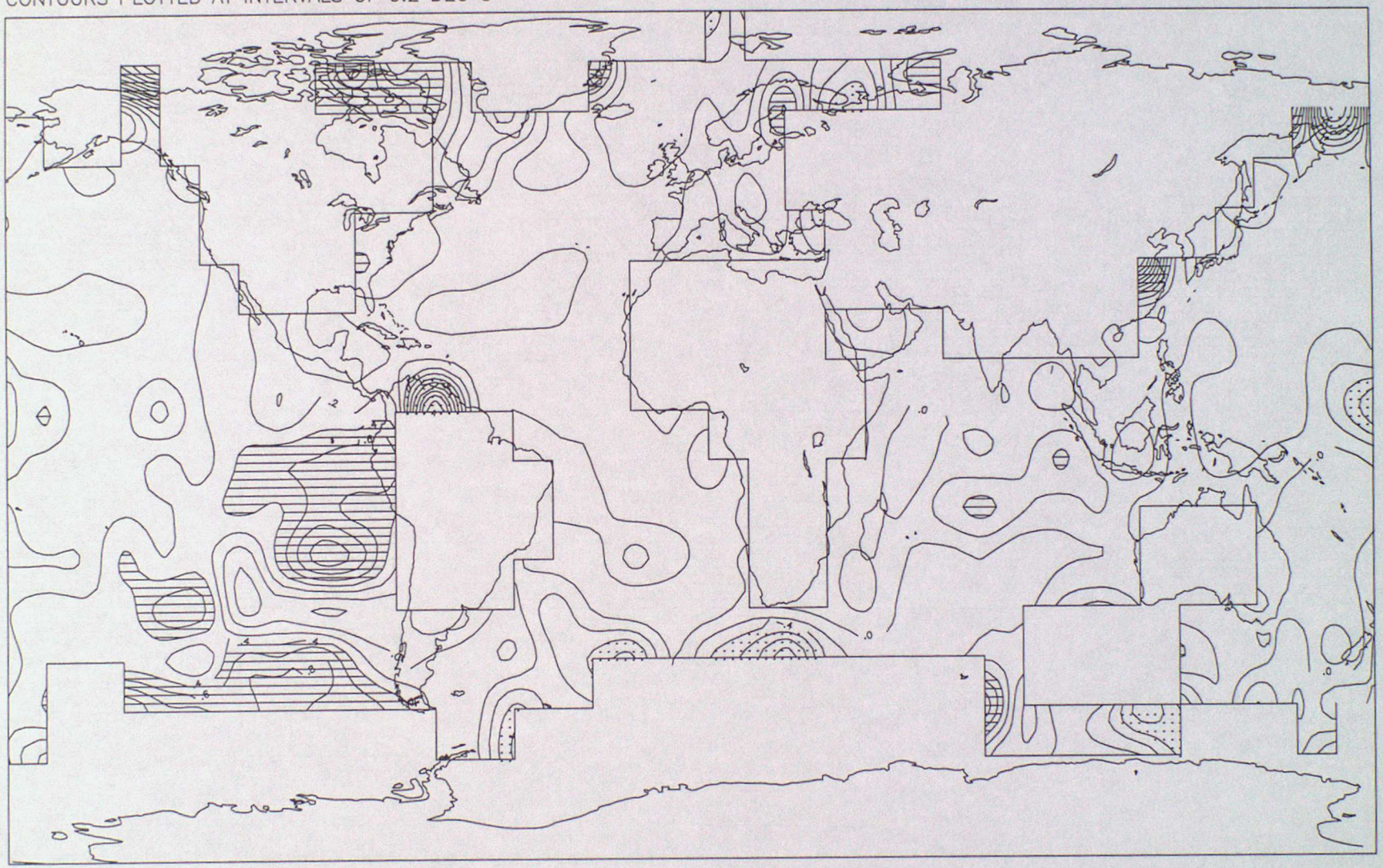


FIG 14: S.D. OF SHIP SEA SURFACE TEMPERATURES (O−A) IN DEG C
DATE:− JULY − DECEMBER 1997
ONLY OBSERVATIONS PASSING QUALITY CONTROL USED IN STATISTICS
CONTOURS PLOTTED AT INTERVALS OF 0.2 DEG C

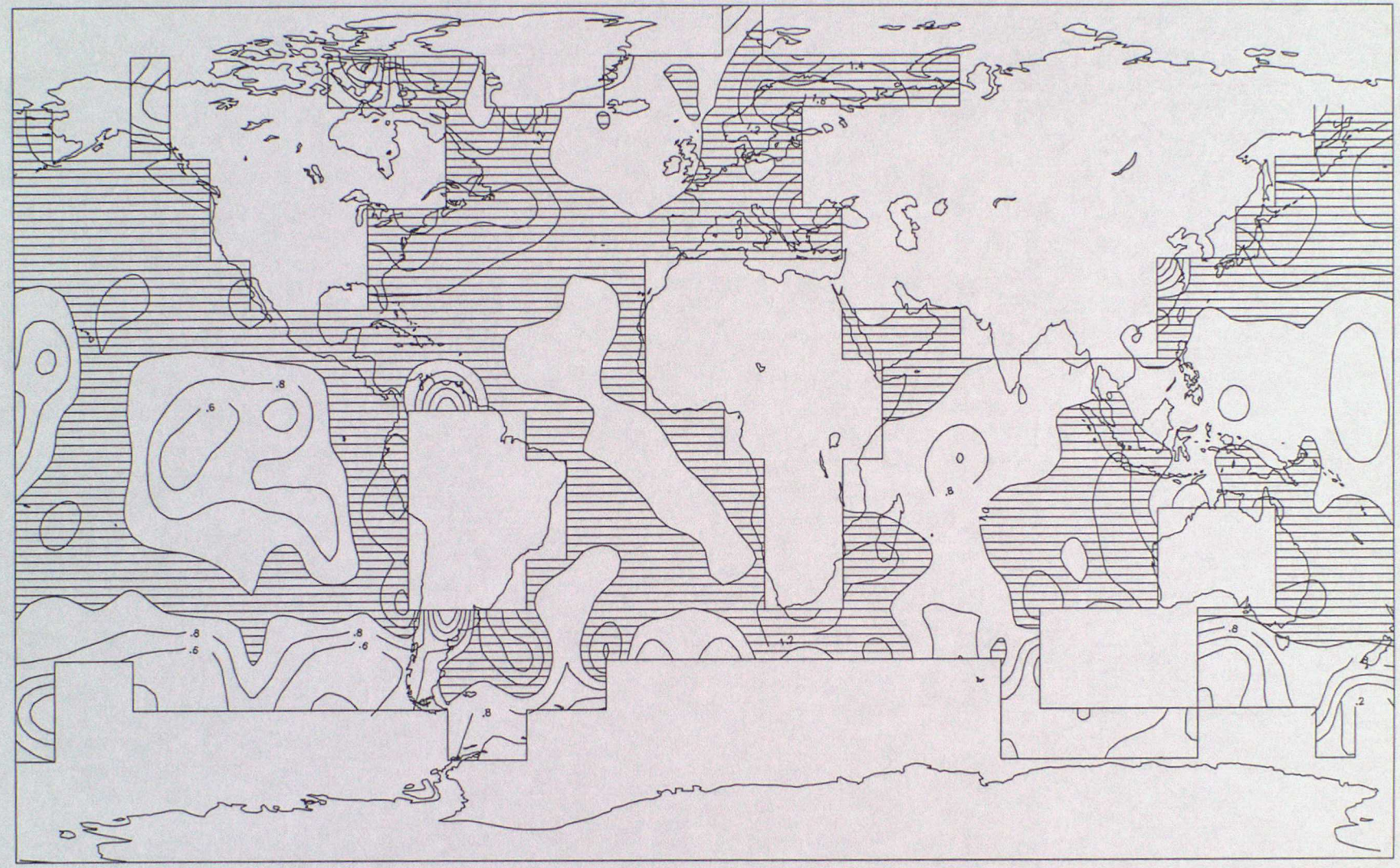


FIG 15:
NUMBER OF SHIP SEA–SURFACE TEMPERATURE OBSERVATIONS
DATE:– JULY – DECEMBER 1997
ONLY OBSERVATIONS PASSING QUALITY CONTROL ARE INCLUDED

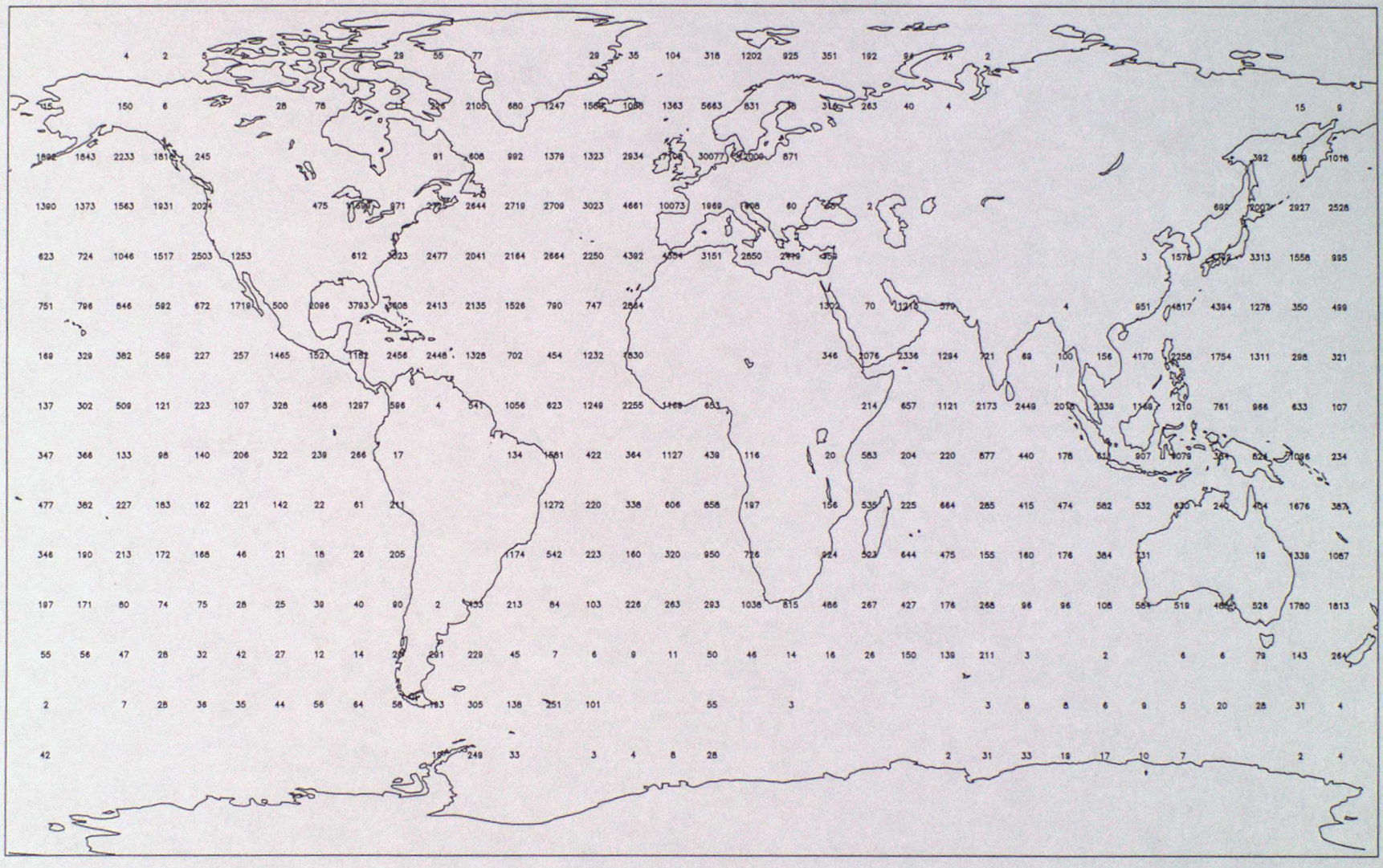


FIG 16:
NUMBER OF FIXED BUOY SEA–SURFACE TEMPERATURE OBSERVATIONS
DATE:– JULY – DECEMBER 1997
ONLY OBSERVATIONS PASSING QUALITY CONTROL ARE INCLUDED

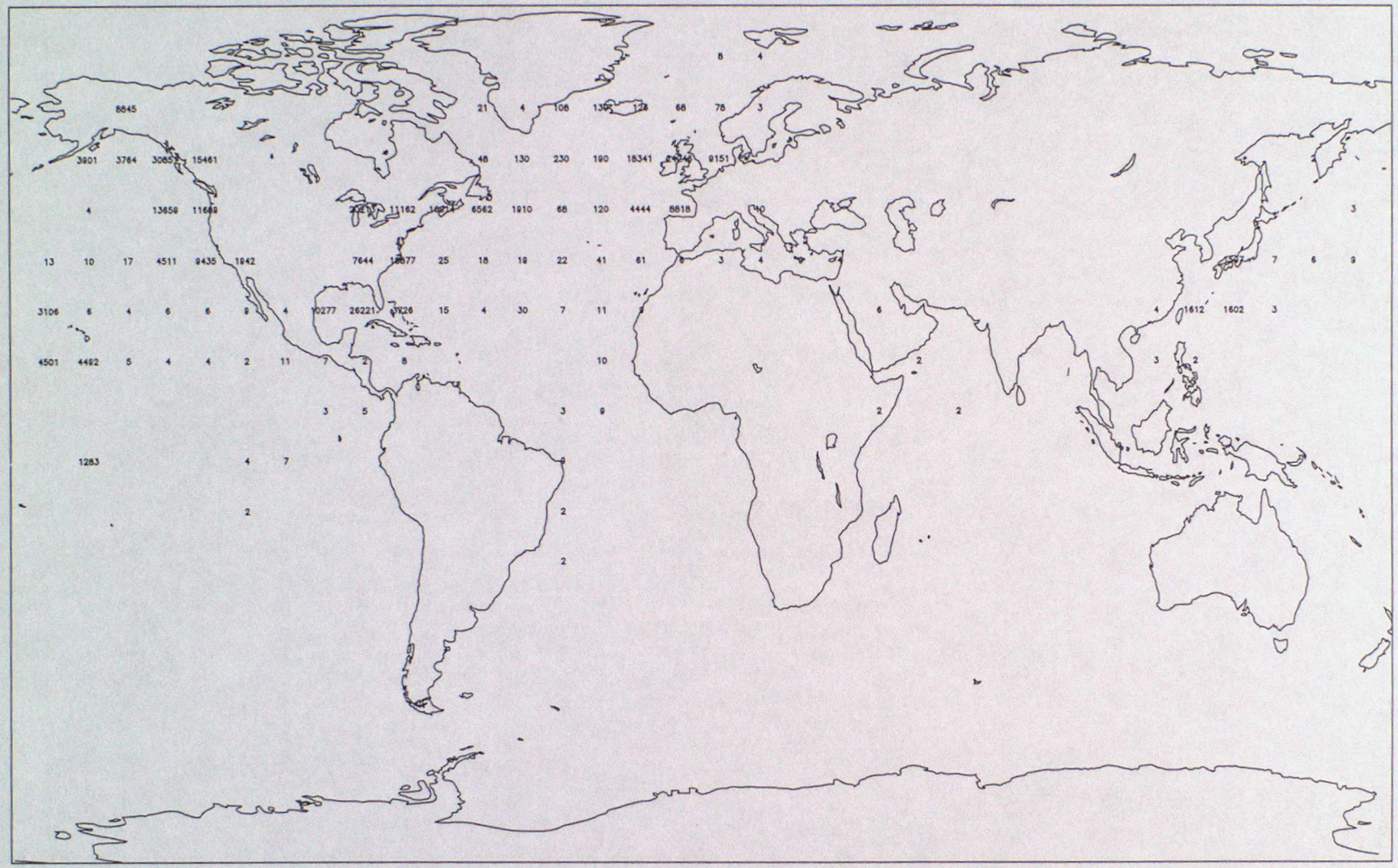
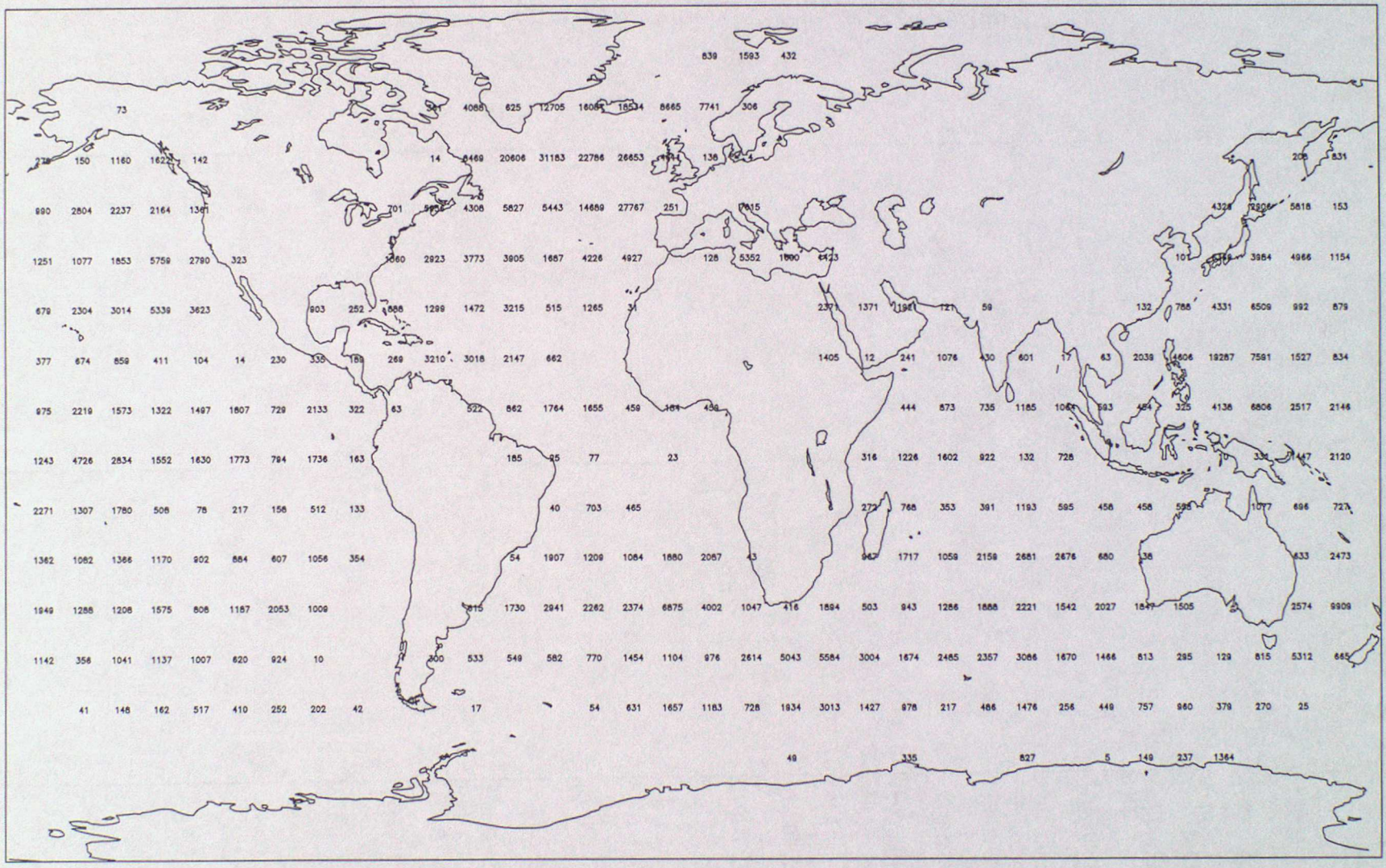
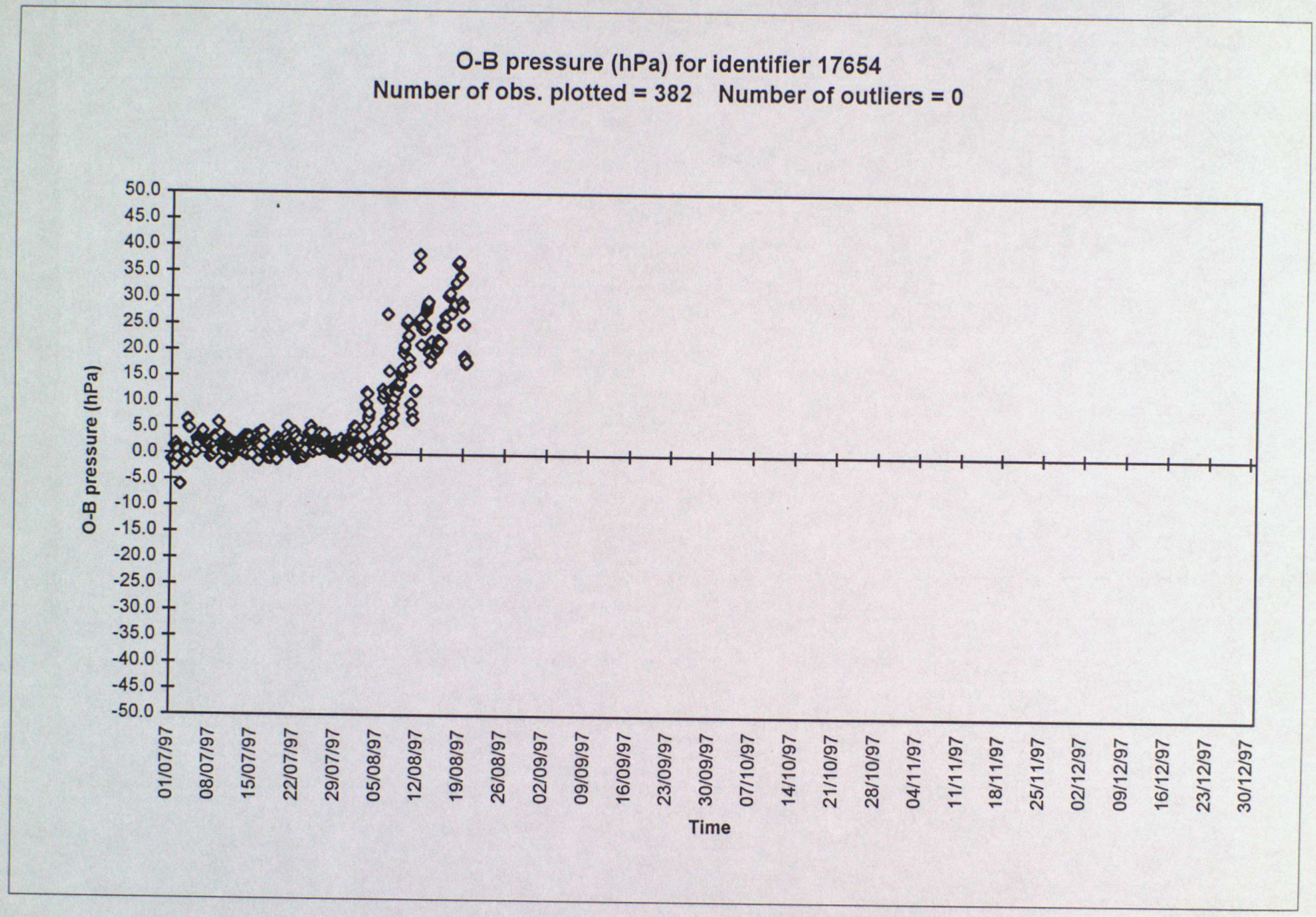
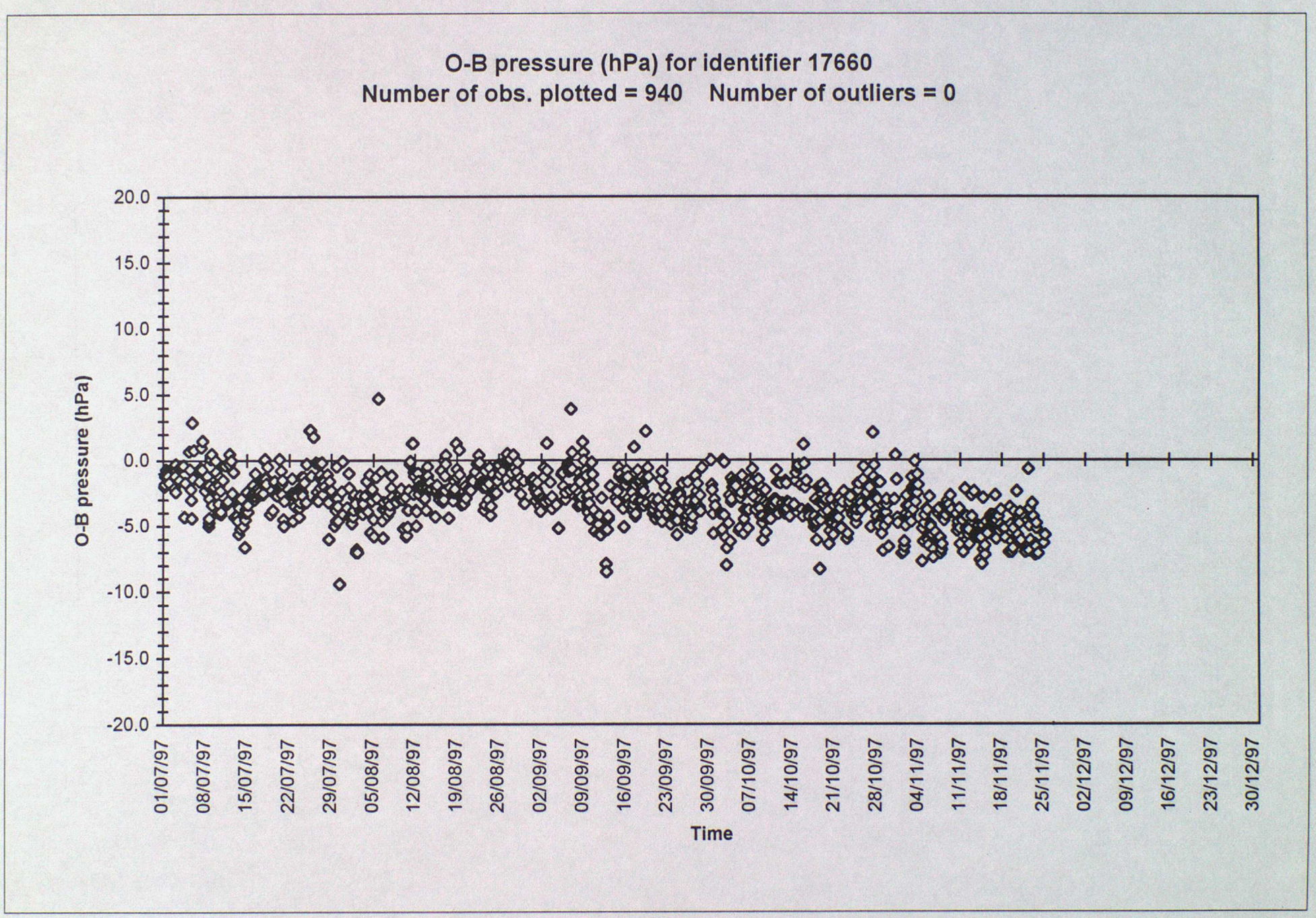


FIG 17:
NUMBER OF DRIFTING BUOY SEA–SURFACE TEMPERATURE OBSERVATIONS
DATE:– JULY – DECEMBER 1997
ONLY OBSERVATIONS PASSING QUALITY CONTROL ARE INCLUDED




O-B pressure (hPa) for identifier 17654
Number of obs. plotted = 382 Number of outliers = 0
O-B pressure (hPa)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time


O-B pressure (hPa) for identifier 17660
Number of obs. plotted = 940 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-B pressure (hPa) for identifier 23510
Number of obs. plotted = 295 Number of outliers = 0
O-B pressure (hPa)
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
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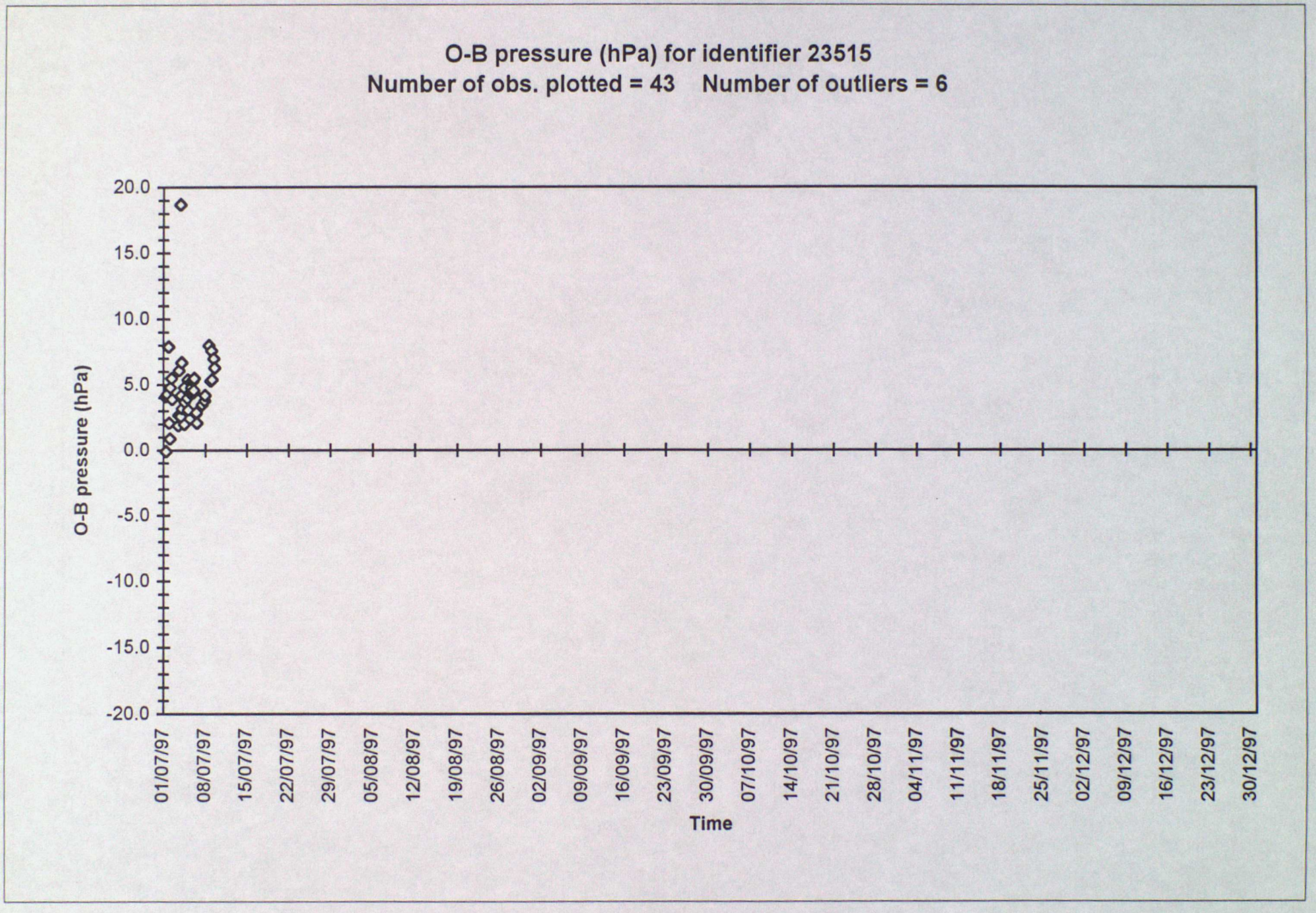
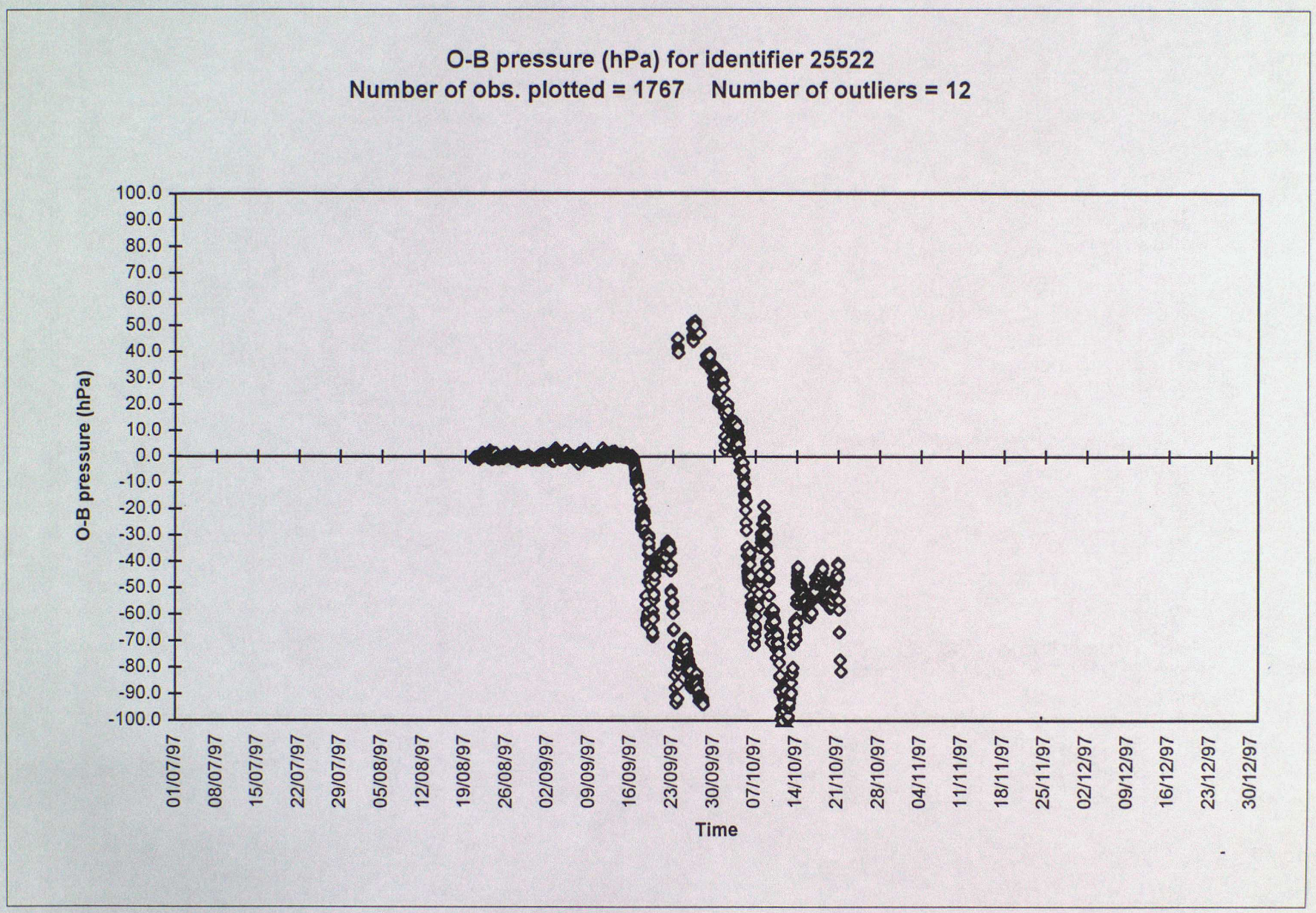
16/12/97
23/12/97
30/12/97


O-B pressure (hPa) for identifier 23515
Number of obs. plotted = 43 Number of outliers = 6
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-B pressure (hPa) for identifier 23946
Number of obs. plotted = 150 Number of outliers = 10
O-B pressure (hPa)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-B pressure (hPa) for identifier 25522
Number of obs. plotted = 1767 Number of outliers = 12
O-B pressure (hPa)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

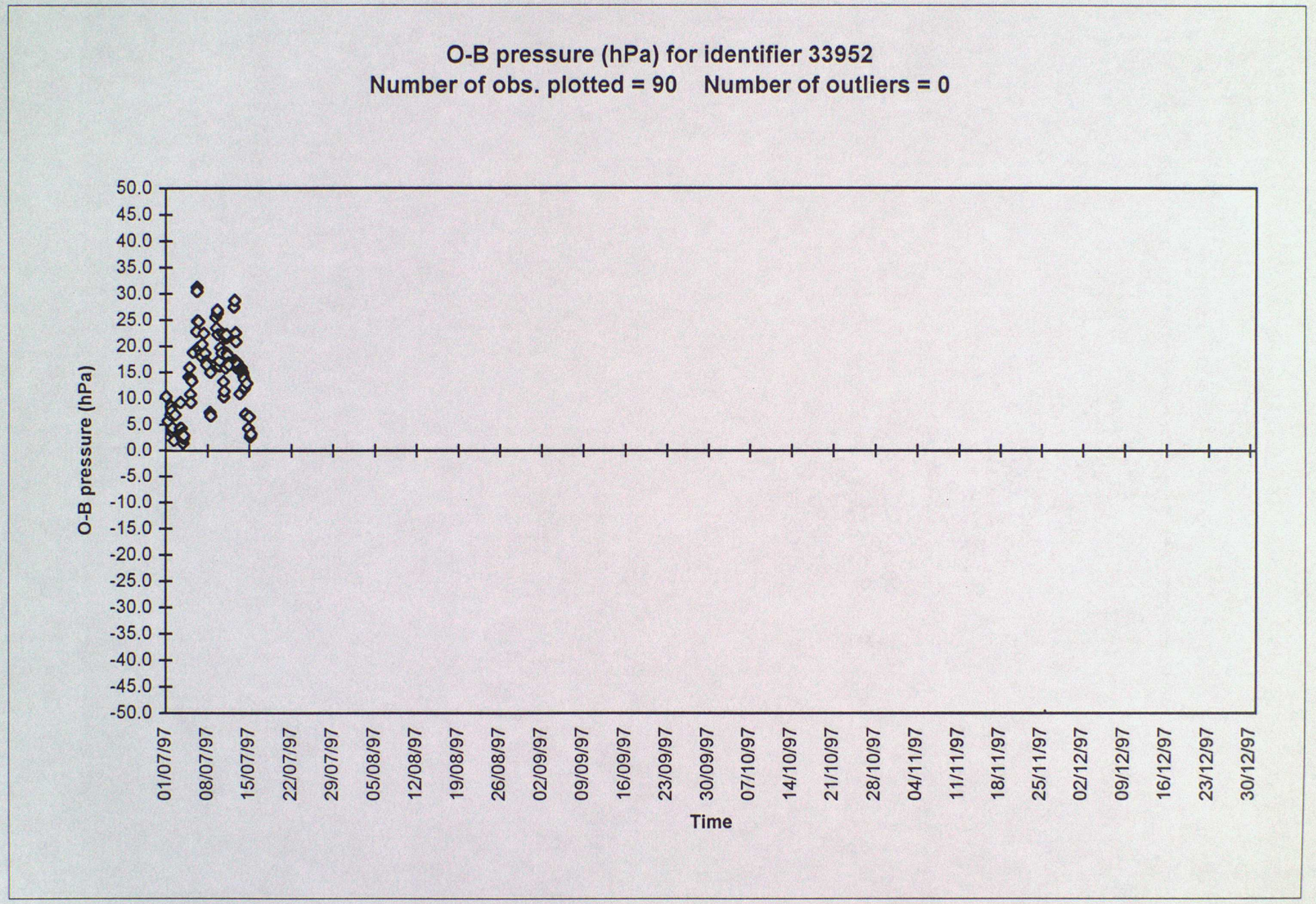
O-B pressure (hPa) for identifier 31024

Number of obs. plotted = 745 Number of outliers = 0

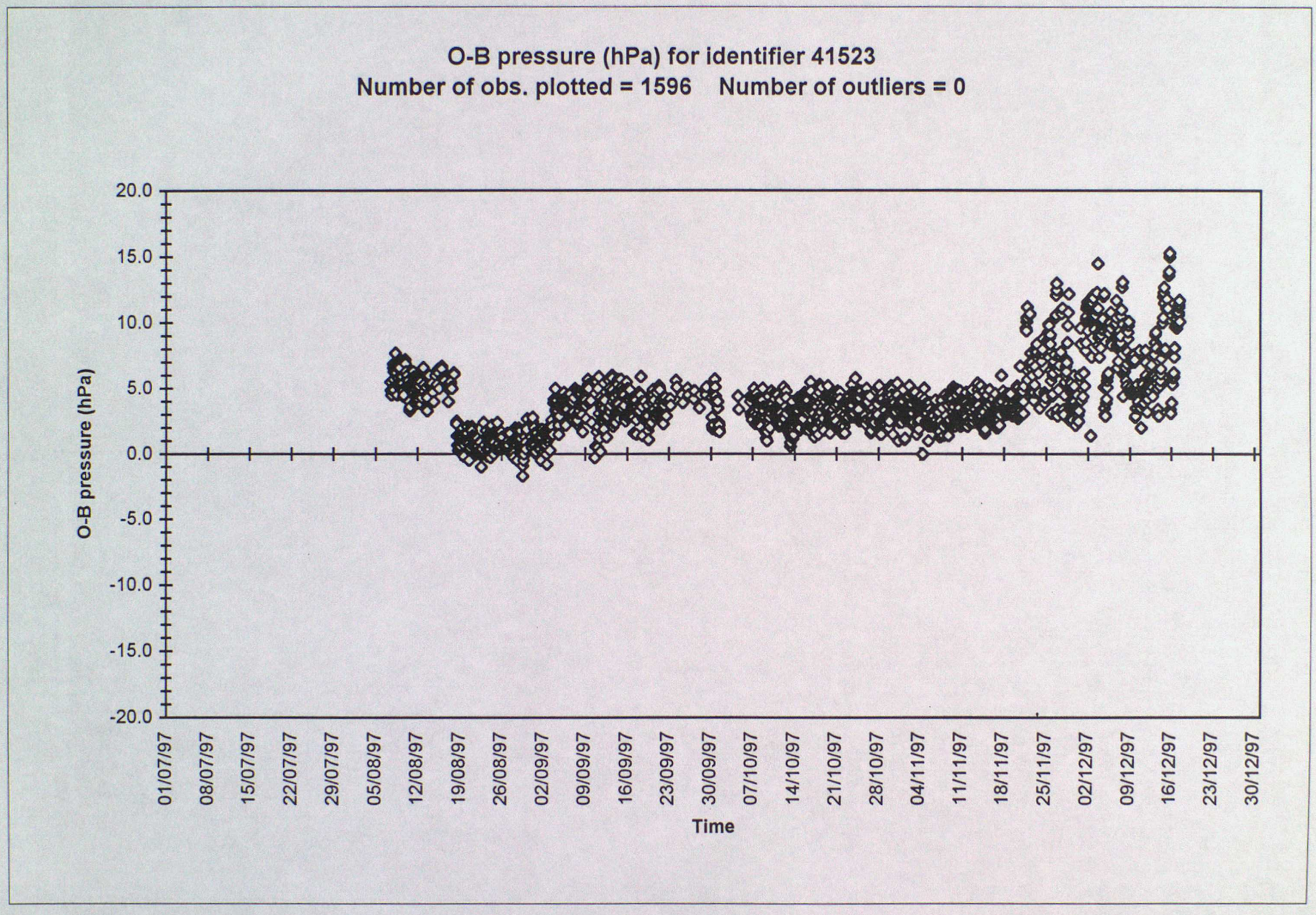
O-B pressure (hPa) for identifier 33576
Number of obs. plotted = 128 Number of outliers = 0
O-B pressure (hPa)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-B pressure (hPa) for identifier 33946

Number of obs. plotted = 529 Number of outliers = 5

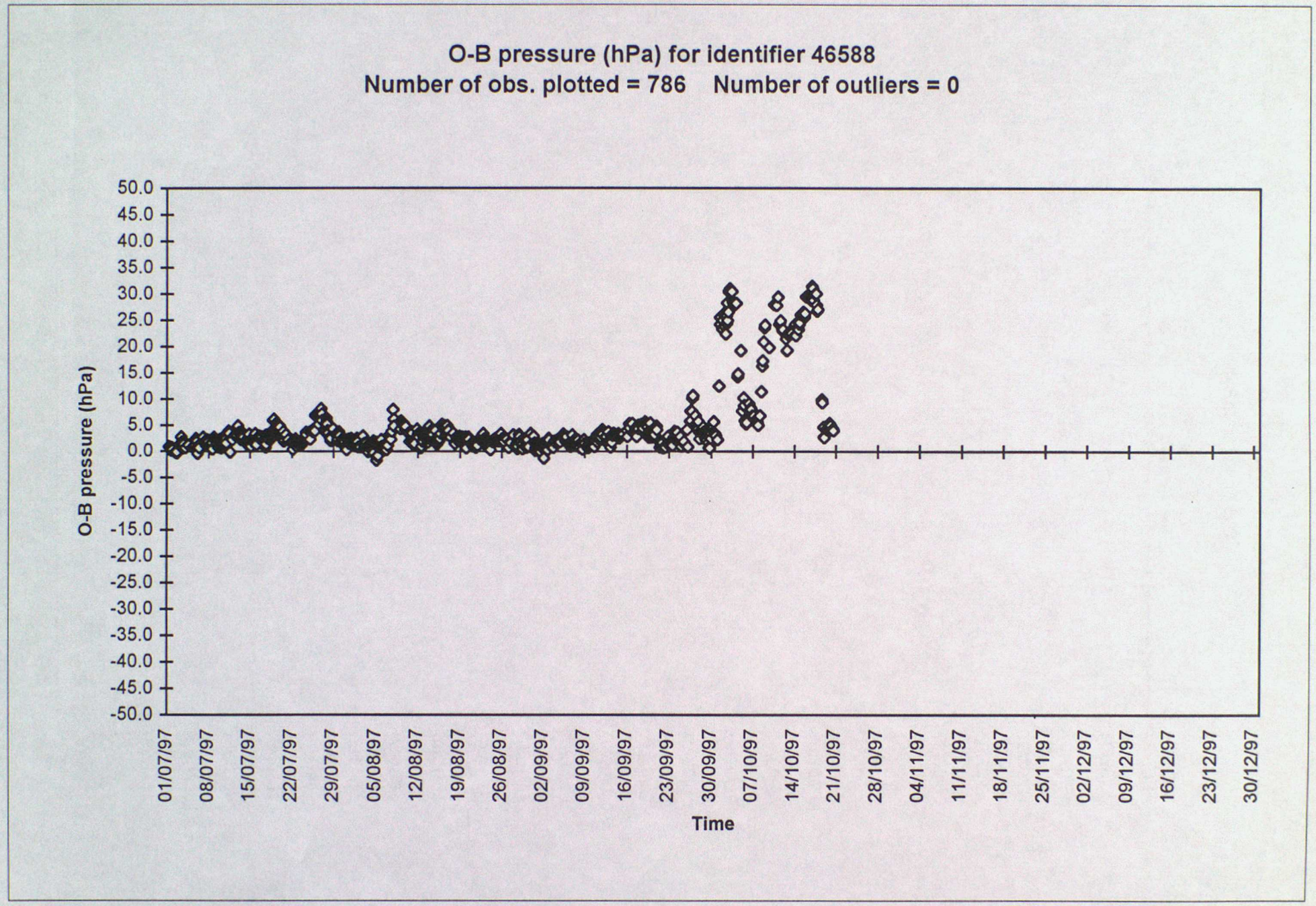

O-B pressure (hPa) for identifier 33952
Number of obs. plotted = 90 Number of outliers = 0
O-B pressure (hPa)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

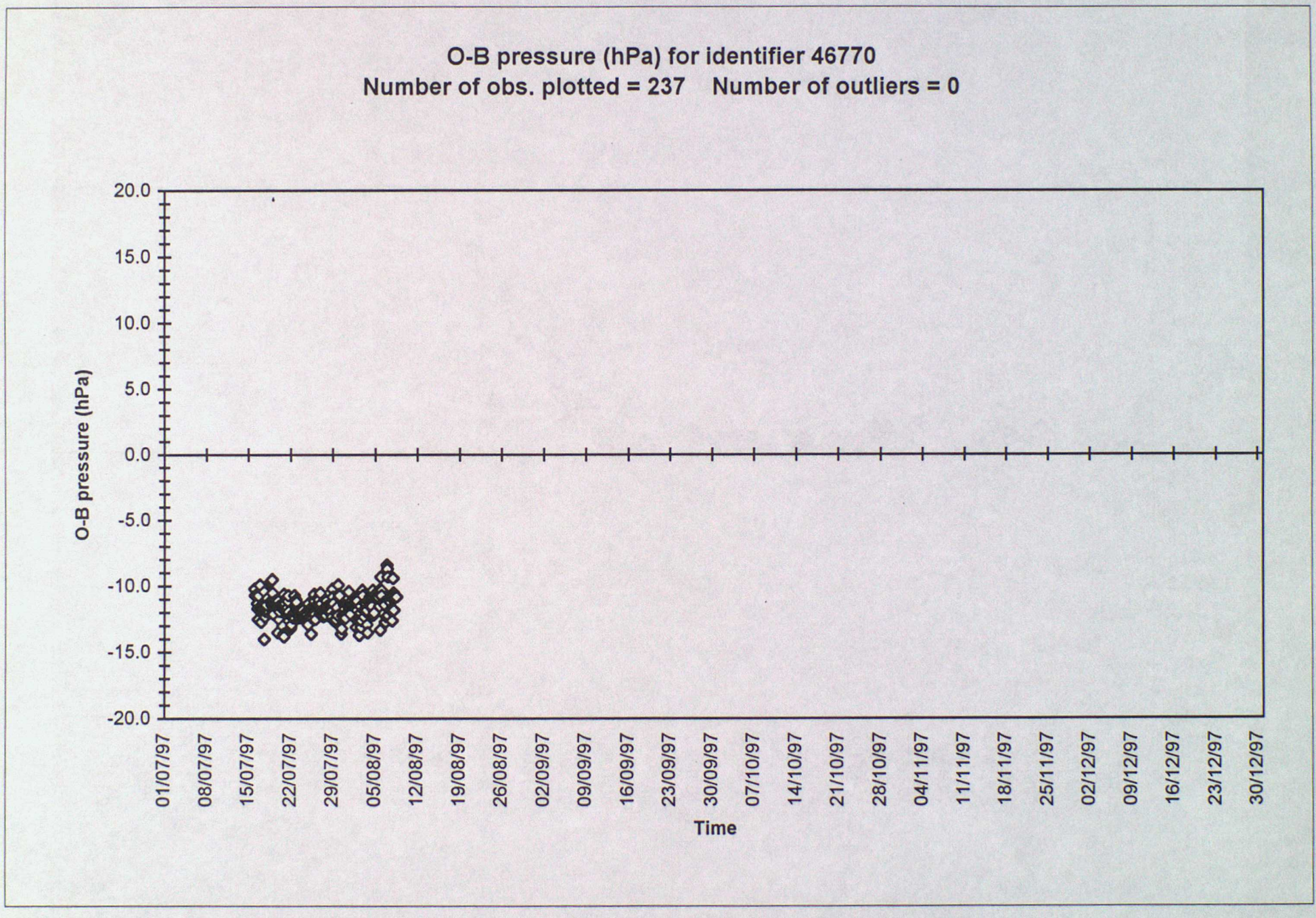
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time
O-B pressure (hPa) for identifier 34906
Number of obs. plotted = 560 Number of outliers = 0


O-B pressure (hPa) for identifier 41523
Number of obs. plotted = 1596 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

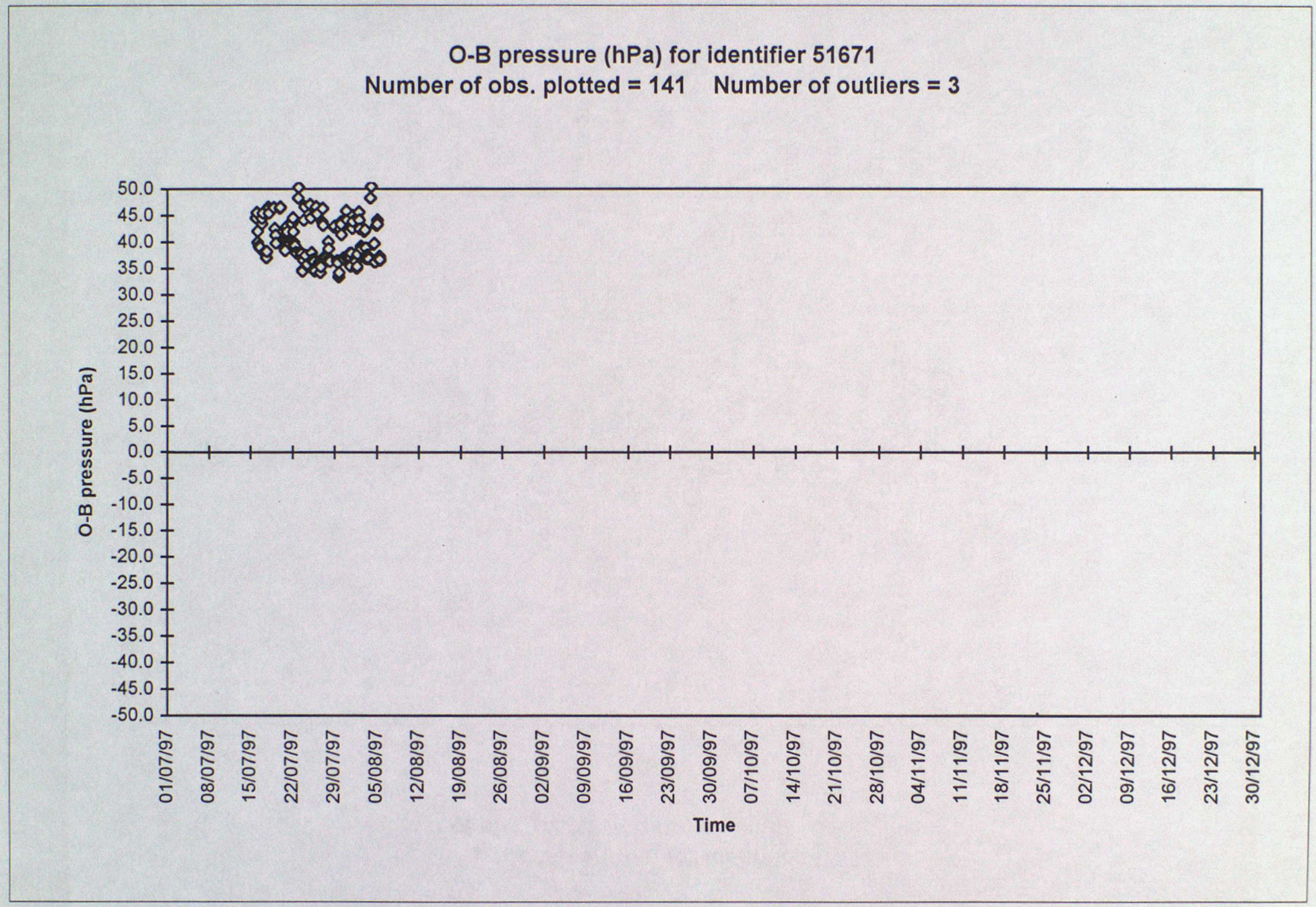
O-B pressure (hPa) for identifier 44777

Number of obs. plotted = 145 Number of outliers = 0


O-B pressure (hPa) for identifier 46588
Number of obs. plotted = 786 Number of outliers = 0
O-B pressure (hPa)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time


O-B pressure (hPa) for identifier 46770
Number of obs. plotted = 237 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

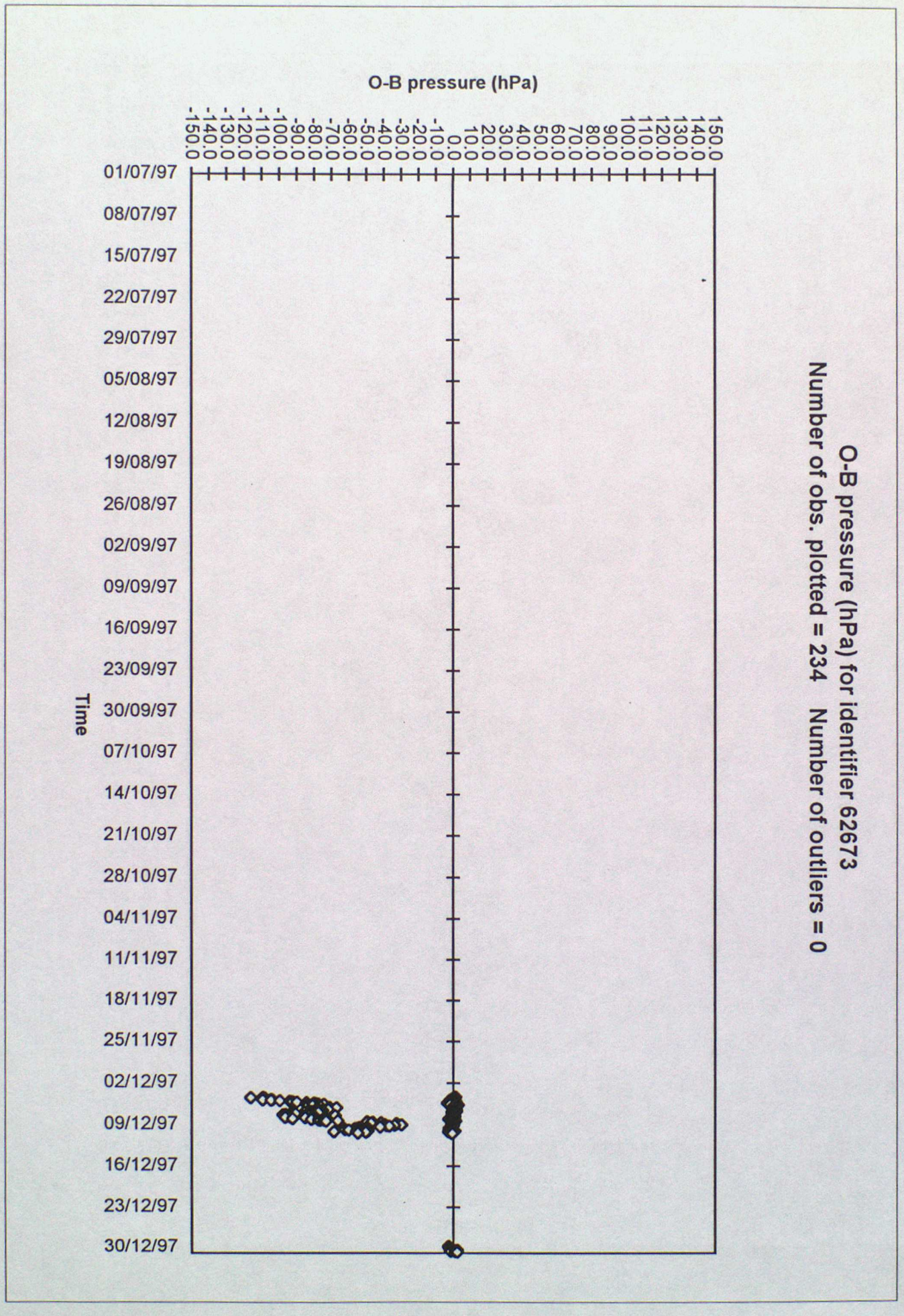
O-B pressure (hPa) for identifier 47602
Number of obs. plotted = 3464 Number of outliers = 0
O-B pressure (hPa)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-B pressure (hPa) for identifier 51671
Number of obs. plotted = 141 Number of outliers = 3
O-B pressure (hPa)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

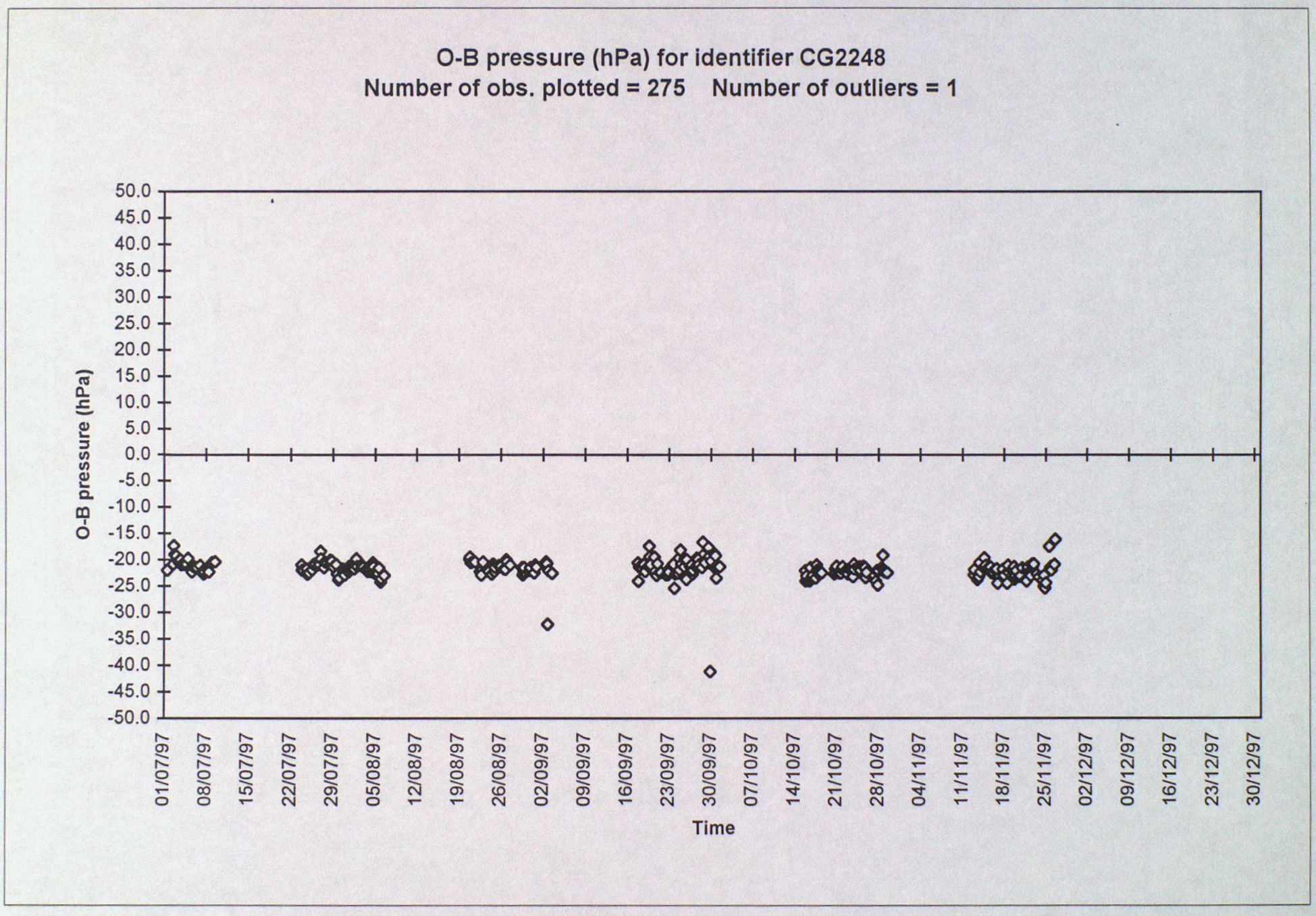
O-B pressure (hPa) for identifier 52539
Number of obs. plotted = 2383 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier 54915
Number of obs. plotted = 657 Number of outliers = 0
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

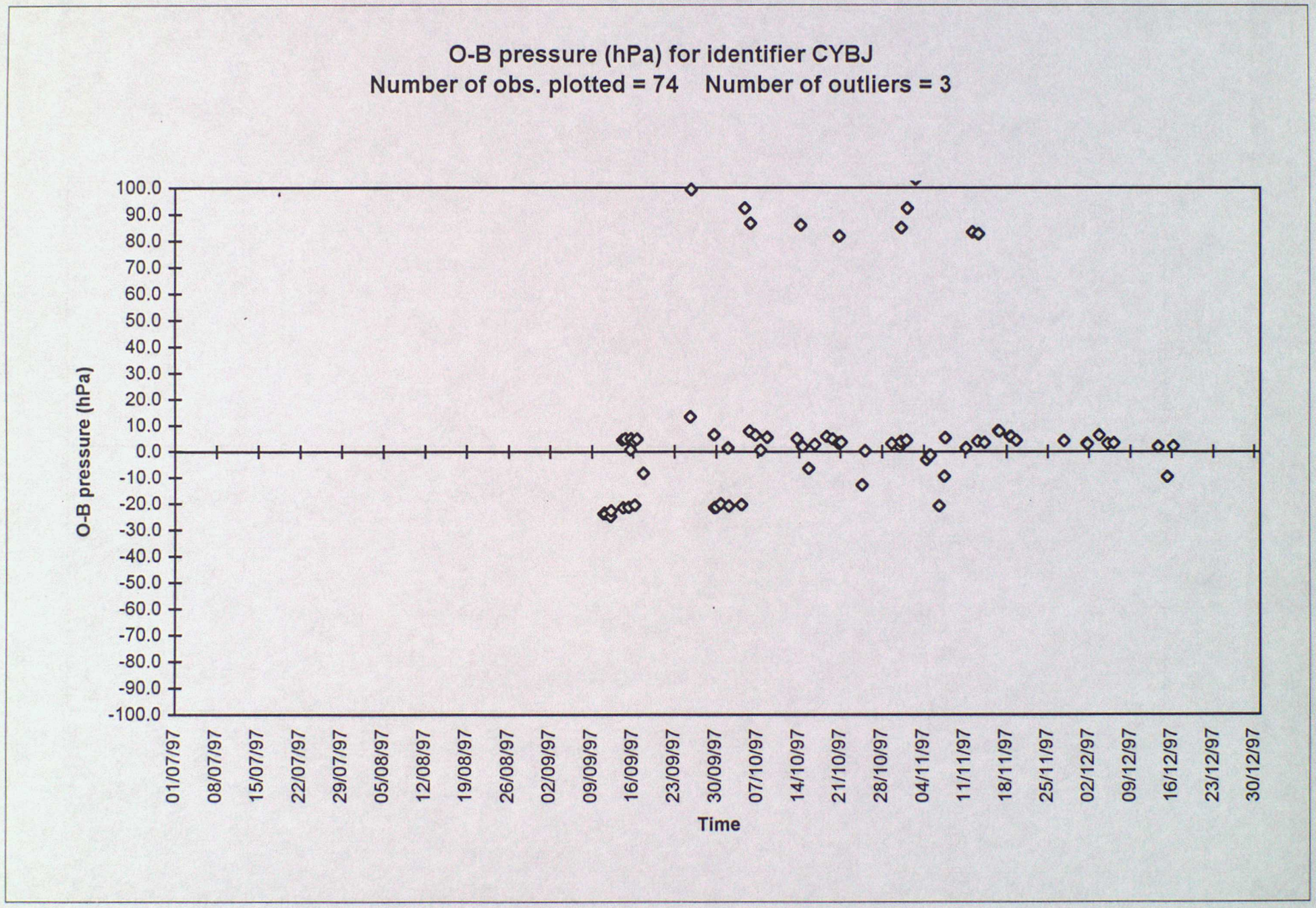
O-B pressure (hPa) for identifier 54939
Number of obs. plotted = 1363 Number of outliers = 2
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

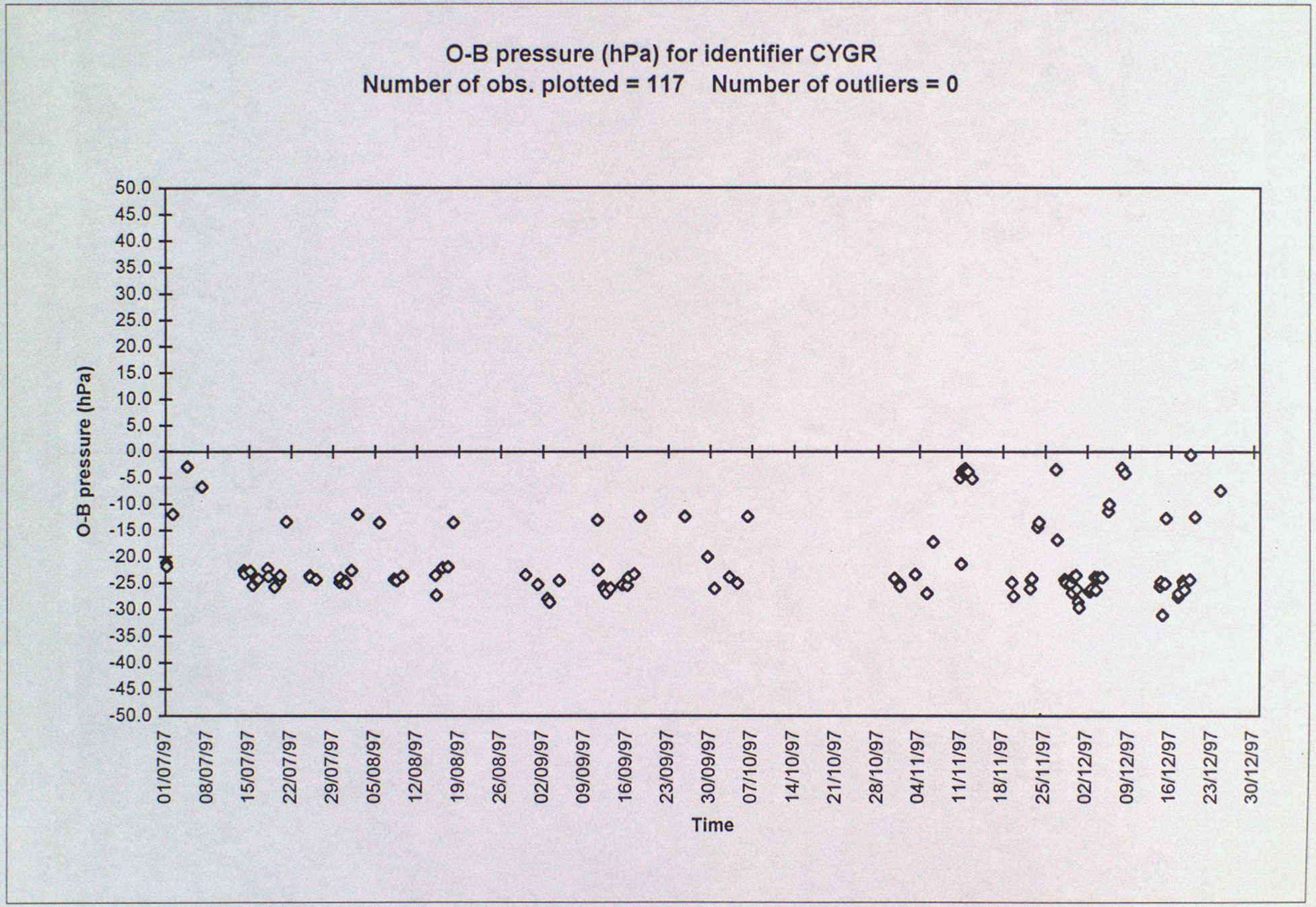

O-B pressure (hPa)
150.0
140.0
130.0
120.0
110.0
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100.0
-110.0
-120.0
-130.0
-140.0
-150.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time
O-B pressure (hPa) for identifier 62673
Number of obs. plotted = 234 Number of outliers = 0

O-B pressure (hPa) for identifier 62674
Number of obs. plotted = 224 Number of outliers = 5
O-B pressure (hPa)
150.0
140.0
130.0
120.0
110.0
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100.0
-110.0
-120.0
-130.0
-140.0
-150.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-B pressure (hPa) for identifier CG2248
Number of obs. plotted = 275 Number of outliers = 1
O-B pressure (hPa)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-B pressure (hPa) for identifier CTFS
Number of obs. plotted = 59 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-B pressure (hPa) for identifier CYBJ
Number of obs. plotted = 74 Number of outliers = 3
O-B pressure (hPa)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time


O-B pressure (hPa) for identifier CYGR
Number of obs. plotted = 117 Number of outliers = 0
O-B pressure (hPa)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-B pressure (hPa) for identifier CYLX
Number of obs. plotted = 119 Number of outliers = 1
O-B pressure (hPa)
-100.0
-90.0
-80.0
-70.0
-60.0
-50.0
-40.0
-30.0
-20.0
-10.0
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier C6FA6
Number of obs. plotted = 288 Number of outliers = 1
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier DNHS
Number of obs. plotted = 133 Number of outliers = 0
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier DOWVD2D
Number of obs. plotted = 314 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier ELJS4
Number of obs. plotted = 48 Number of outliers = 0
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

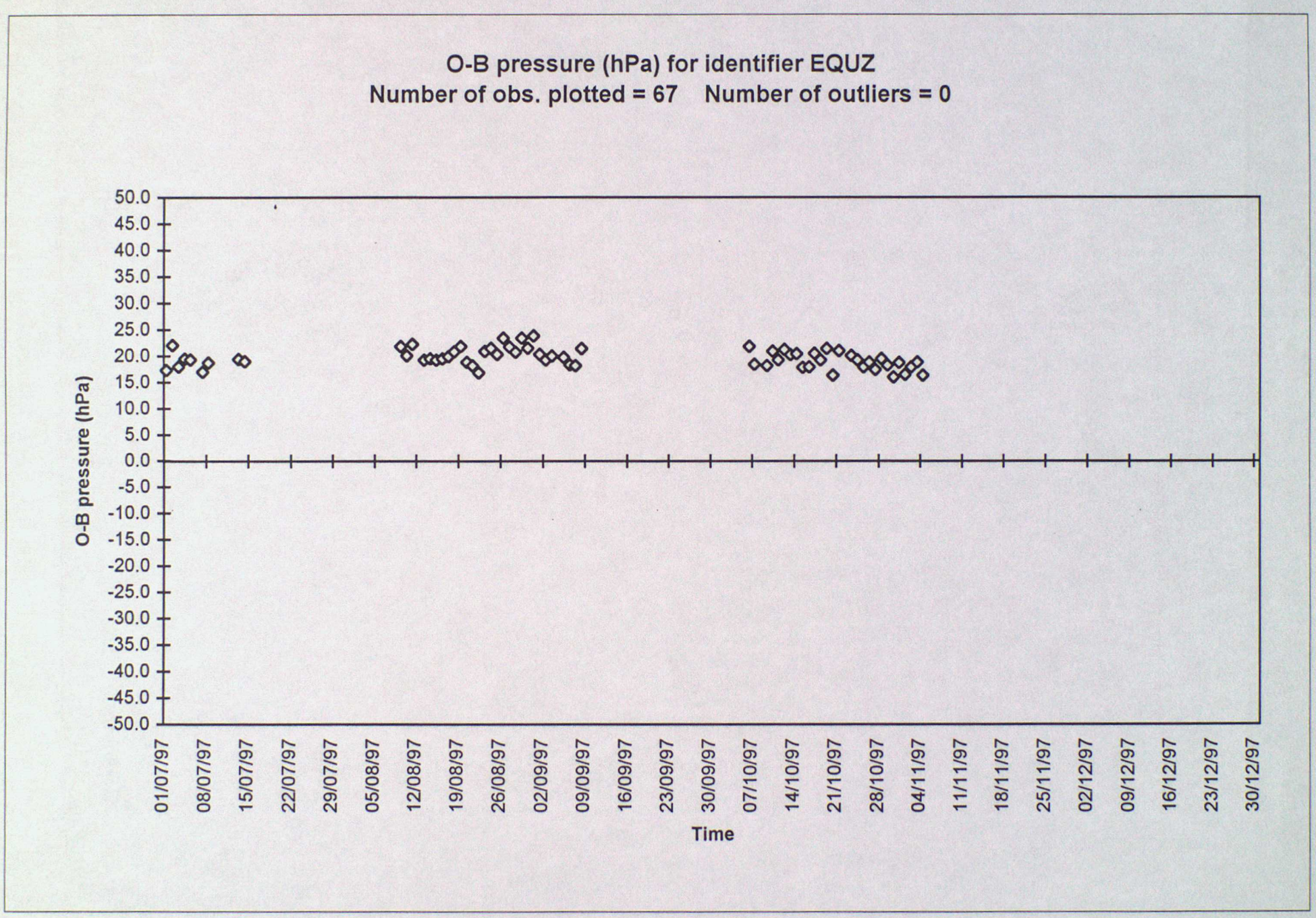
O-B pressure (hPa) for identifier ELNW7
Number of obs. plotted = 145 Number of outliers = 0
O-B pressure (hPa)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-B pressure (hPa) for identifier ELSU8
Number of obs. plotted = 223 Number of outliers = 0
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

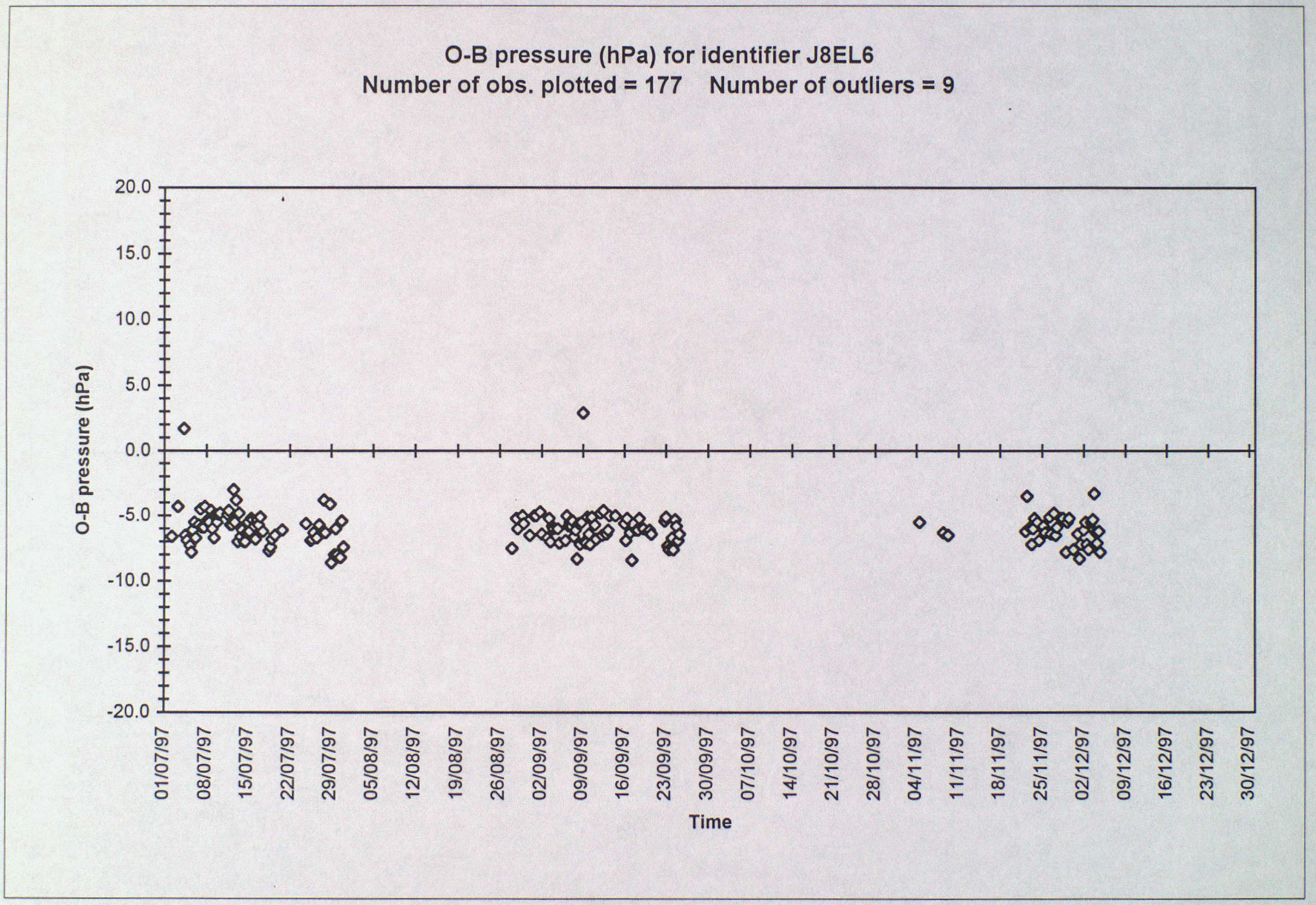
O-B pressure (hPa) for identifier ELUO3
Number of obs. plotted = 53 Number of outliers = 3
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier EQUW
Number of obs. plotted = 72 Number of outliers = 0
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier EQUY
Number of obs. plotted = 81 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-B pressure (hPa) for identifier EQUZ
Number of obs. plotted = 67 Number of outliers = 0
O-B pressure (hPa)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-B pressure (hPa) for identifier EUAF
Number of obs. plotted = 114 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-B pressure (hPa) for identifier J8EL6
Number of obs. plotted = 177 Number of outliers = 9
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-B pressure (hPa) for identifier KSLB
Number of obs. plotted = 43 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier MVQN8
Number of obs. plotted = 238 Number of outliers = 0
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier NYCQ
Number of obs. plotted = 101 Number of outliers = 0
O-B pressure (hPa)
150.0
140.0
130.0
120.0
110.0
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100.0
-110.0
-120.0
-130.0
-140.0
-150.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier OZBL2
Number of obs. plotted = 57 Number of outliers = 0
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier PEXU
Number of obs. plotted = 206 Number of outliers = 3
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier PEXX
Number of obs. plotted = 54 Number of outliers = 0
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier P3NE5
Number of obs. plotted = 50 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
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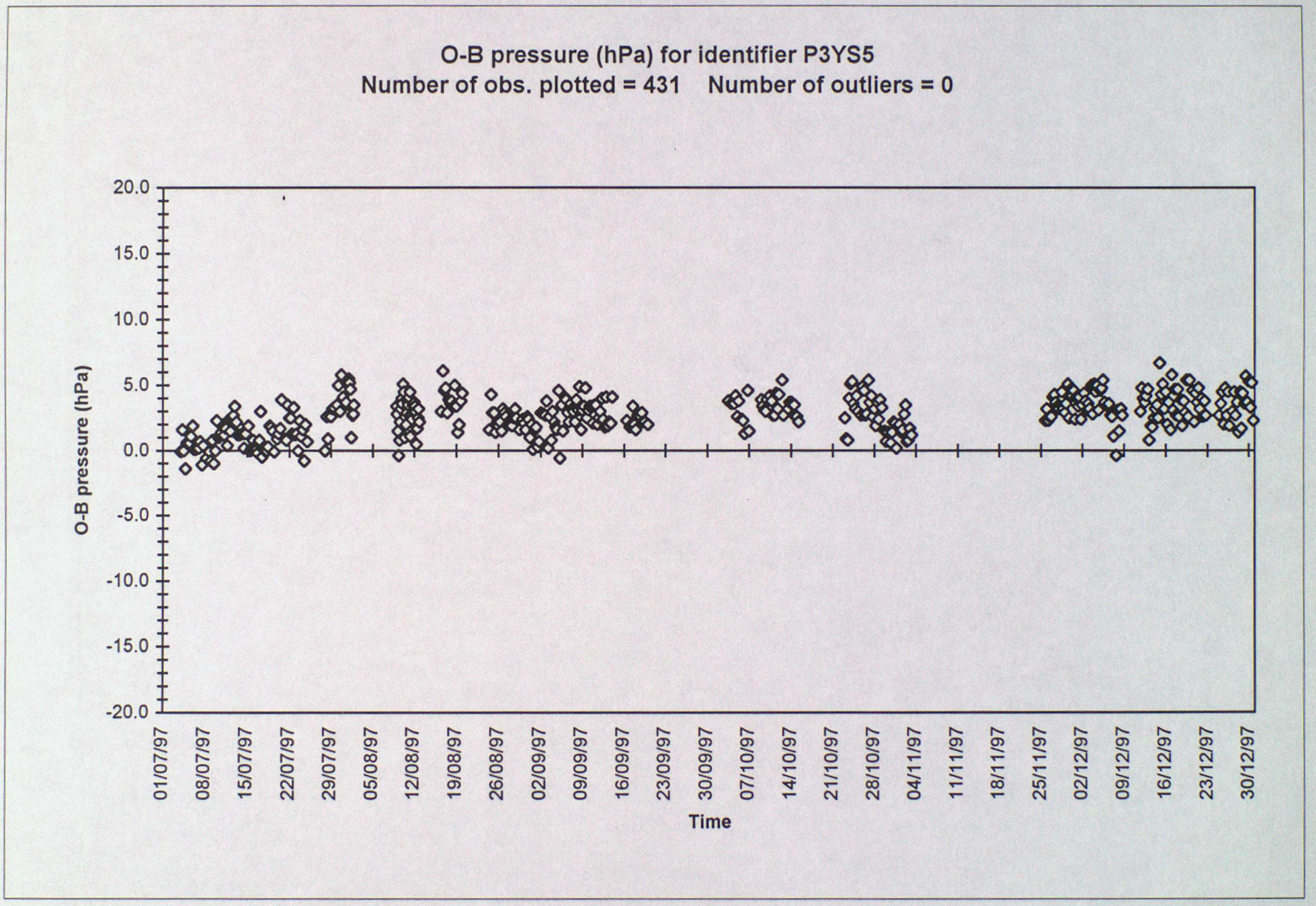
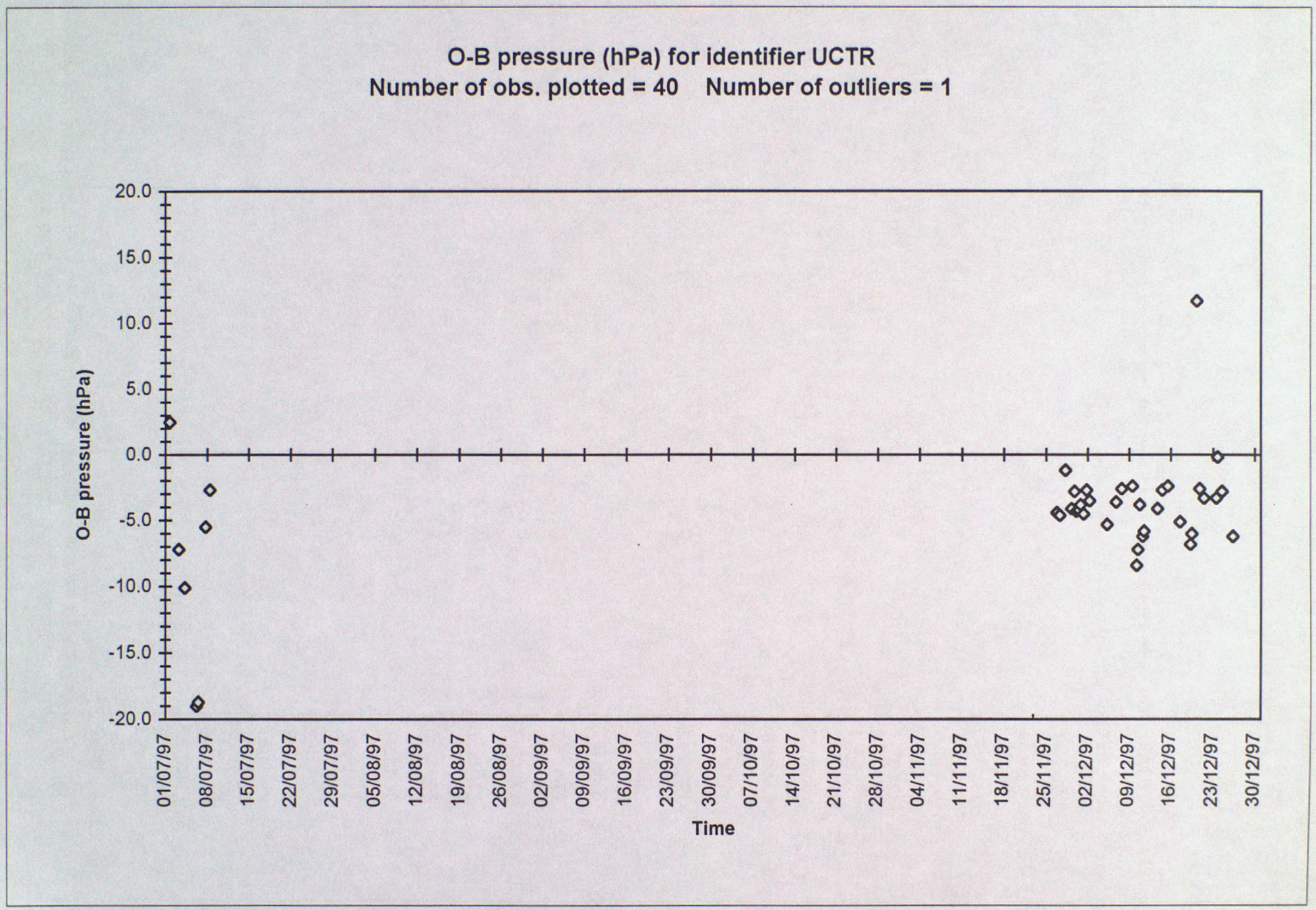
09/12/97
16/12/97
23/12/97
30/12/97


O-B pressure (hPa) for identifier P3YS5
Number of obs. plotted = 431 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-B pressure (hPa) for identifier UCAC
Number of obs. plotted = 42 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier UCJL
Number of obs. plotted = 59 Number of outliers = 0
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-B pressure (hPa) for identifier UCTR
Number of obs. plotted = 40 Number of outliers = 1
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-B pressure (hPa) for identifier UFYN
Number of obs. plotted = 81 Number of outliers = 0
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier UHLK
Number of obs. plotted = 50 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier UHVW
Number of obs. plotted = 176 Number of outliers = 2
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier UITJ
Number of obs. plotted = 130 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier UQDB
Number of obs. plotted = 100 Number of outliers = 0
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
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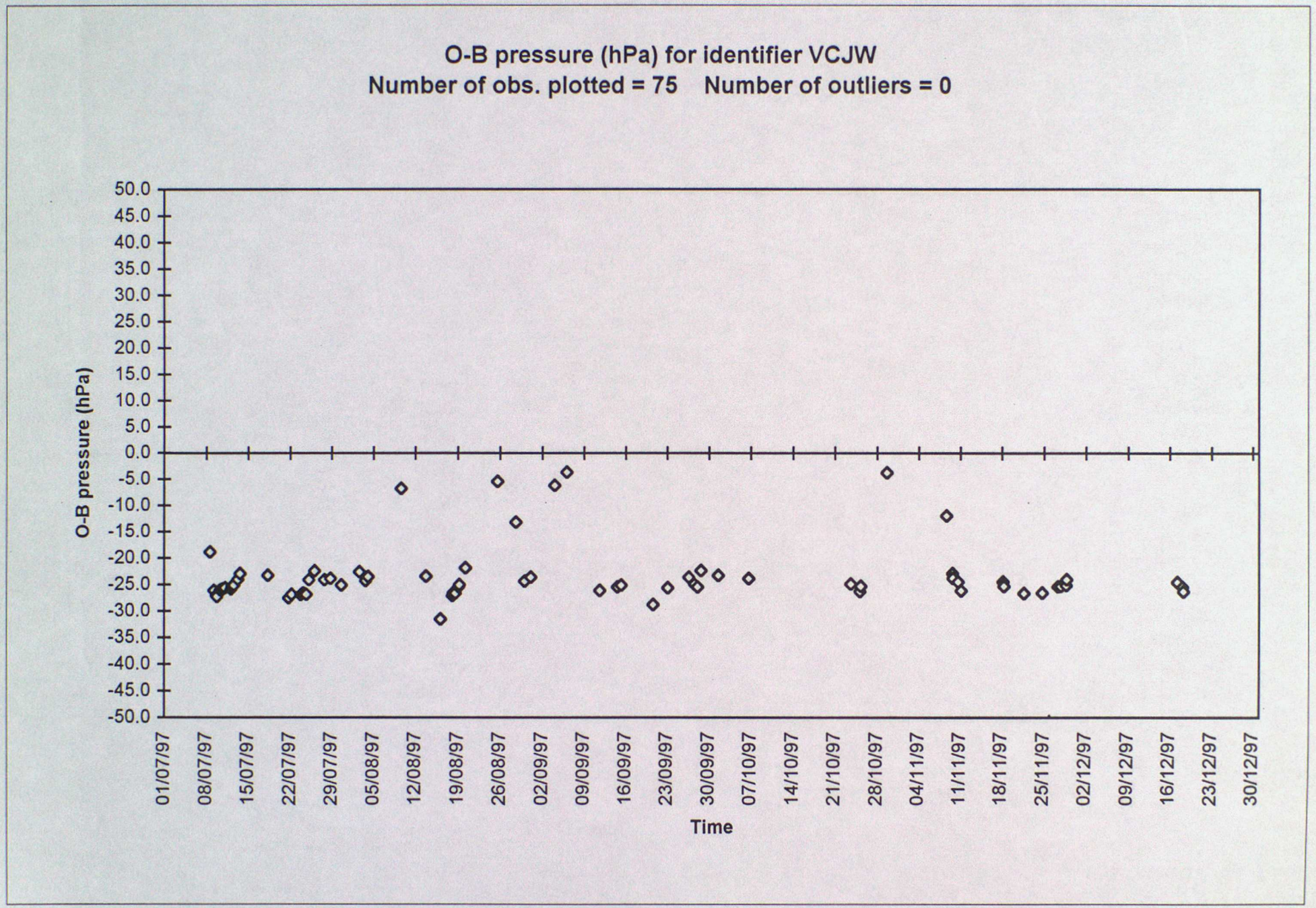
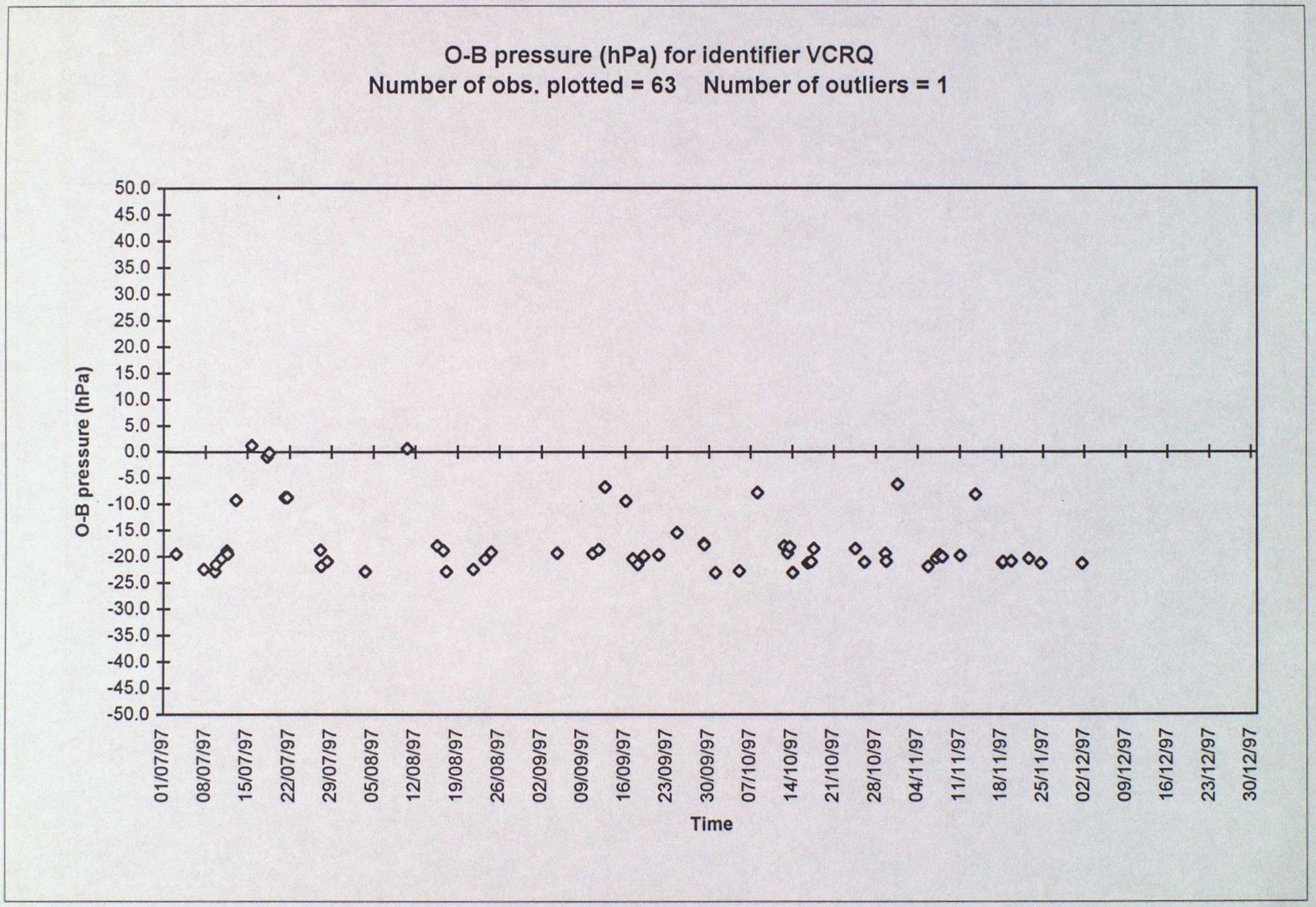
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-B pressure (hPa) for identifier VCJW
Number of obs. plotted = 75 Number of outliers = 0
O-B pressure (hPa)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

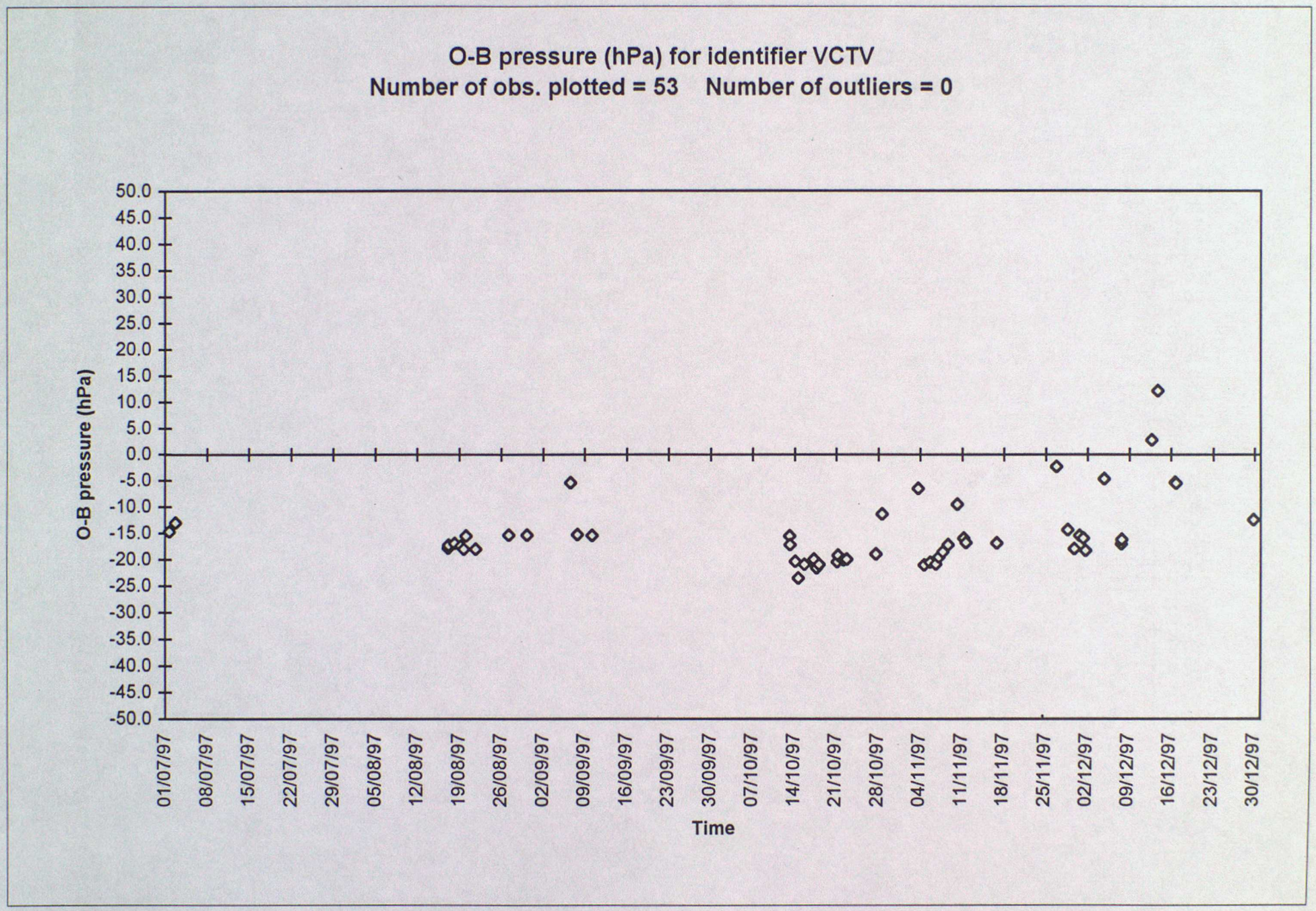
O-B pressure (hPa) for identifier VCLX
Number of obs. plotted = 96 Number of outliers = 0
O-B pressure (hPa)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier VCQL
Number of obs. plotted = 69 Number of outliers = 1
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-B pressure (hPa) for identifier VCRQ
Number of obs. plotted = 63 Number of outliers = 1
O-B pressure (hPa)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-B pressure (hPa) for identifier VCTD
Number of obs. plotted = 109 Number of outliers = 0
O-B pressure (hPa)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier VCTK
Number of obs. plotted = 41 Number of outliers = 3
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-B pressure (hPa) for identifier VCTV
Number of obs. plotted = 53 Number of outliers = 0
O-B pressure (hPa)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-B pressure (hPa)
150.0
140.0
130.0
120.0
110.0
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100.0
-110.0
-120.0
-130.0
-140.0
-150.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time
O-B pressure (hPa) for identifier VC6750
Number of obs. plotted = 69 Number of outliers = 0

O-B pressure (hPa) for identifier VDDL
Number of obs. plotted = 41 Number of outliers = 2
O-B pressure (hPa)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier VGNW
Number of obs. plotted = 51 Number of outliers = 1
O-B pressure (hPa)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier VOXZ
Number of obs. plotted = 155 Number of outliers = 1
O-B pressure (hPa)
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
-35.0
-40.0
-45.0
-50.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier VRUS7
Number of obs. plotted = 71 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier VTCN
Number of obs. plotted = 126 Number of outliers = 0
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier V2XO
Number of obs. plotted = 206 Number of outliers = 4
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier V7AS7
Number of obs. plotted = 76 Number of outliers = 0
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier V7AW8
Number of obs. plotted = 122 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
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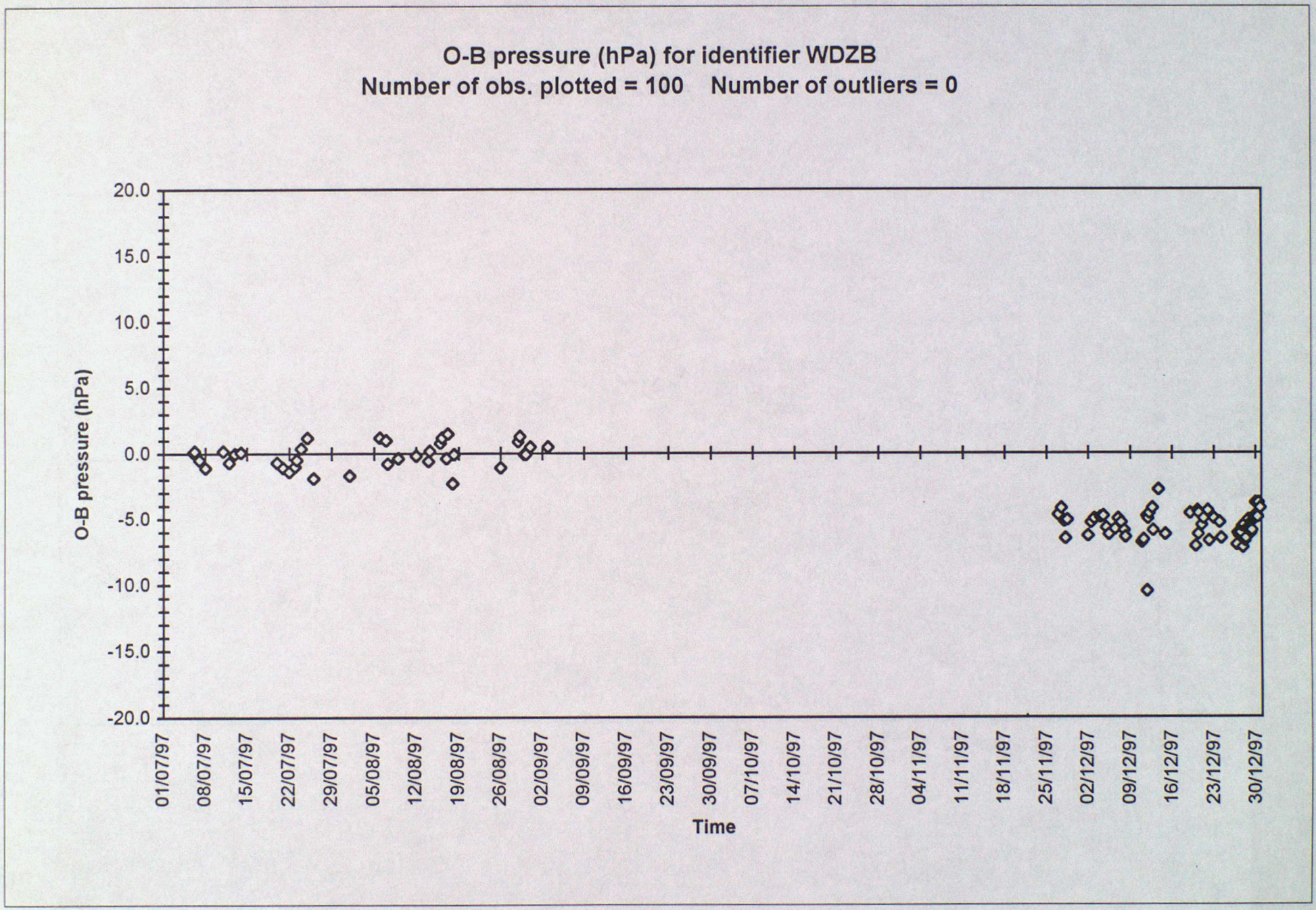
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-B pressure (hPa) for identifier WDZB
Number of obs. plotted = 100 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-B pressure (hPa) for identifier YJWZ7
Number of obs. plotted = 99 Number of outliers = 2
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier 3EIY6
Number of obs. plotted = 109 Number of outliers = 1
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier 3ESE9
Number of obs. plotted = 73 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier 3ESQ5
Number of obs. plotted = 124 Number of outliers = 0
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier 3FDY6
Number of obs. plotted = 232 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier 3FGN3
Number of obs. plotted = 125 Number of outliers = 0
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
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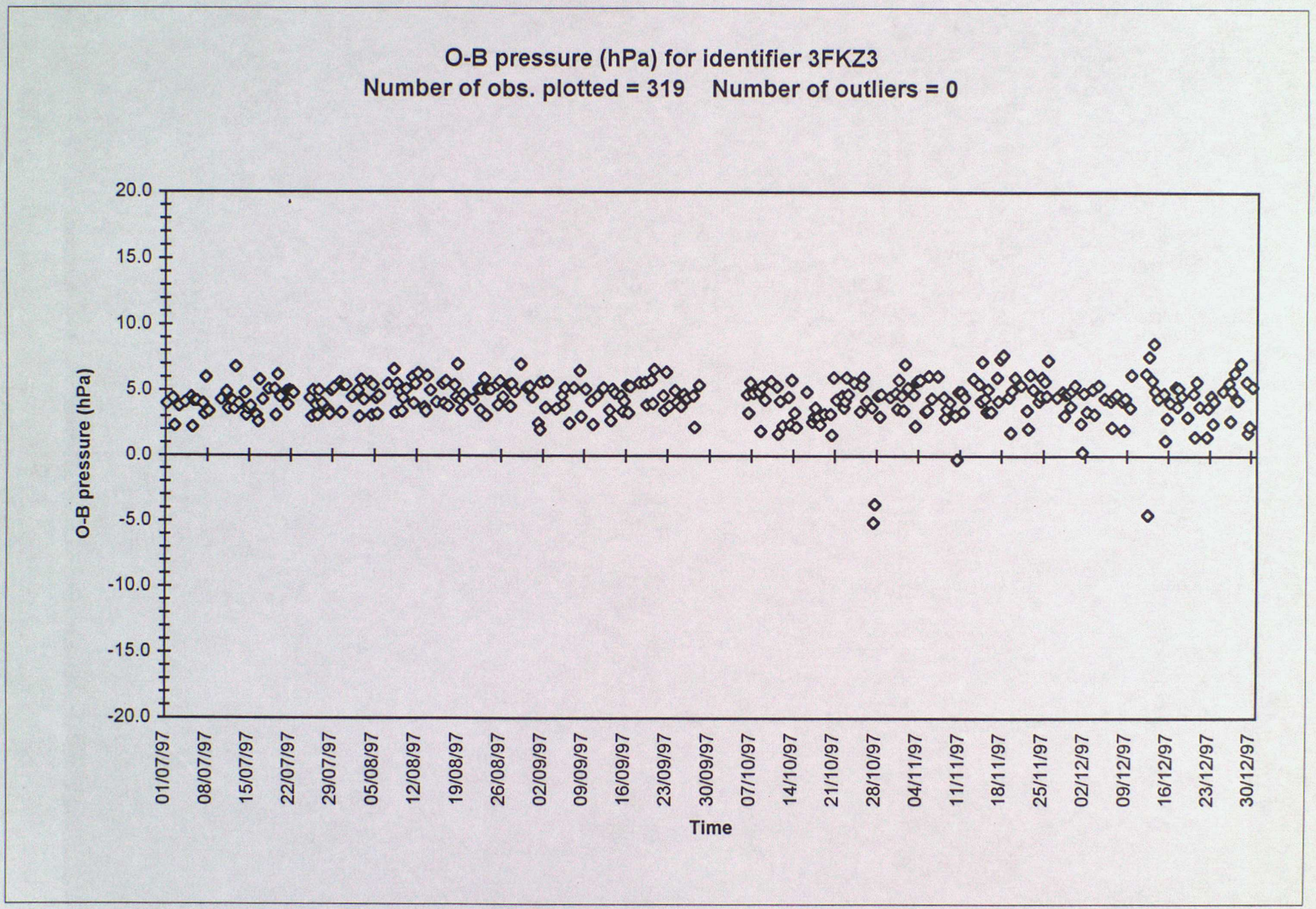
23/12/97
30/12/97


O-B pressure (hPa) for identifier 3FKZ3
Number of obs. plotted = 319 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-B pressure (hPa) for identifier 3FTJ4
Number of obs. plotted = 120 Number of outliers = 0
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier 3FZW
Number of obs. plotted = 106 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

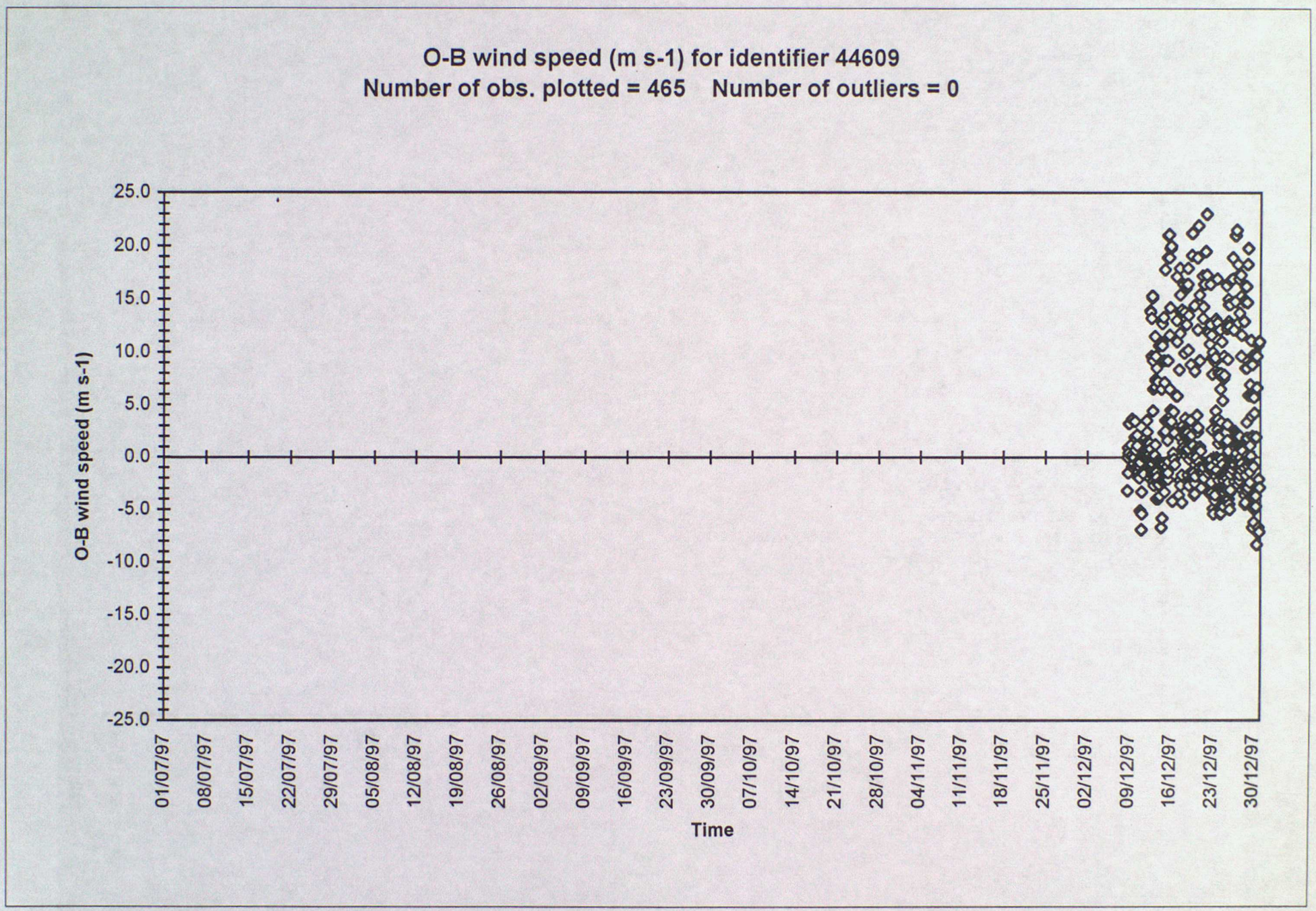
O-B pressure (hPa) for identifier 9MCP6
Number of obs. plotted = 196 Number of outliers = 0
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier 9VHU
Number of obs. plotted = 56 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier 9VIH
Number of obs. plotted = 136 Number of outliers = 0
O-B pressure (hPa)
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B pressure (hPa) for identifier 9VPK
Number of obs. plotted = 169 Number of outliers = 0
O-B pressure (hPa)
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B wind speed (m s-1) for identifier 41521
Number of obs. plotted = 217 Number of outliers = 0
O-B wind speed (m s-1)
-90.0
-80.0
-70.0
-60.0
-50.0
-40.0
-30.0
-20.0
-10.0
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-B wind speed (m s-1) for identifier 44609
Number of obs. plotted = 465 Number of outliers = 0
O-B wind speed (m s-1)
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-B wind speed (m s-1) for identifier 62803
Number of obs. plotted = 716 Number of outliers = 5
O-B wind speed (m s-1)
-25.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
25.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
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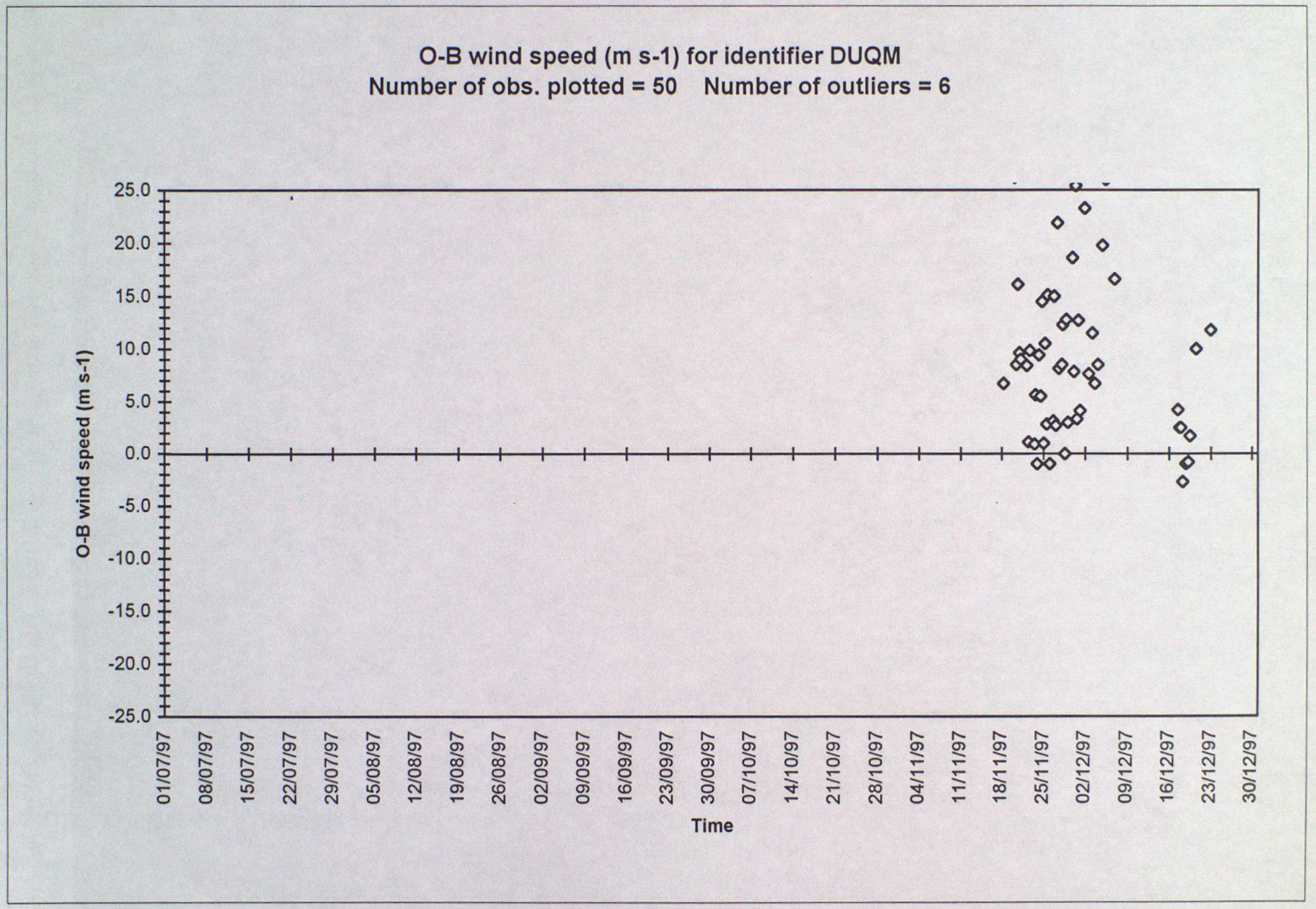
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-B wind speed (m s-1) for identifier DUQM
Number of obs. plotted = 50 Number of outliers = 6
O-B wind speed (m s-1)
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-B wind speed (m s-1) for identifier GQEK
Number of obs. plotted = 119 Number of outliers = 1
O-B wind speed (m s-1)
-25.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
25.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B wind speed (m s-1) for identifier PEXU
Number of obs. plotted = 157 Number of outliers = 2
O-B wind speed (m s-1)
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B wind speed (m s-1) for identifier PHHQ
Number of obs. plotted = 56 Number of outliers = 1
O-B wind speed (m s-1)
-25.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
25.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B wind speed (m s-1) for identifier PJNP
Number of obs. plotted = 51 Number of outliers = 3
O-B wind speed (m s-1)
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B wind speed (m s-1) for identifier VRUZ7
Number of obs. plotted = 62 Number of outliers = 0
O-B wind speed (m s-1)
-25.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
25.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B wind speed (m s-1) for identifier VRVI3
Number of obs. plotted = 73 Number of outliers = 0
O-B wind speed (m s-1)
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B wind speed (m s-1) for identifier ZCBE7
Number of obs. plotted = 162 Number of outliers = 0
O-B wind speed (m s-1)
-25.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
25.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B wind speed for identifier 3BIX
Number of obs. plotted = 62 Number of outliers = 1
O-B wind speed (m s-1)
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B wind speed (m s-1) for identifier 3ELC6
Number of obs. plotted = 294 Number of outliers = 6
O-B wind speed (m s-1)
-25.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
25.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B wind speed (m s-1) for identifier 3EMW5
Number of obs. plotted = 68 Number of outliers = 0
O-B wind speed (m s-1)
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-B wind speed (m s-1) for identifier 3FHE4
Number of obs. plotted = 124 Number of outliers = 0
O-B wind speed (m s-1)
-25.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
25.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-B wind speed (m s-1) for identifier 8PNH
Number of obs. plotted = 140 Number of outliers = 1
O-B wind speed (m s-1)
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
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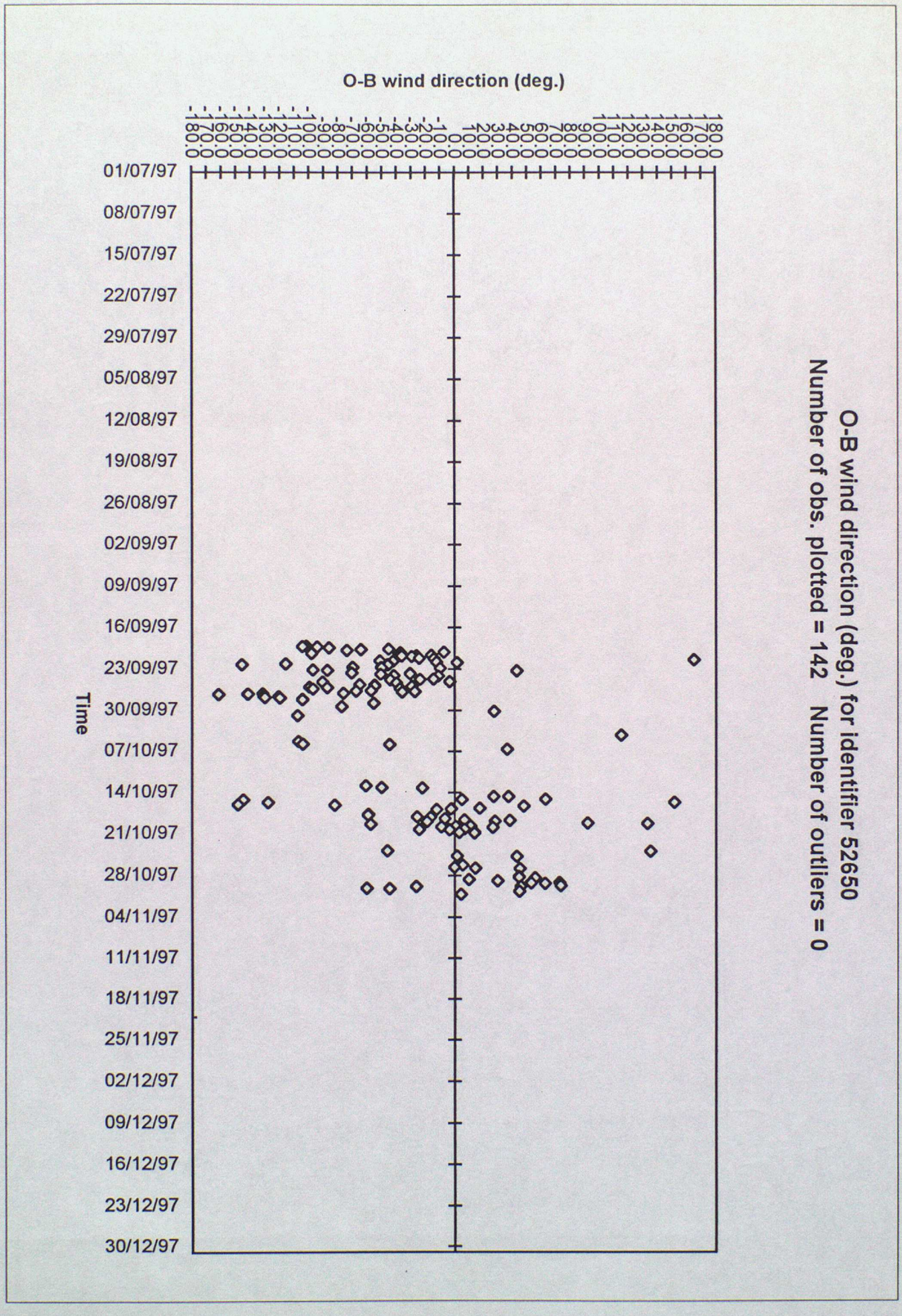
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-B wind direction (deg.)
-180.0 -177.0 -174.0 -171.0 -168.0 -165.0 -162.0 -159.0 -156.0 -153.0 -150.0 -147.0 -144.0 -141.0 -138.0 -135.0 -132.0 -129.0 -126.0 -123.0 -120.0 -117.0 -114.0 -111.0 -108.0 -105.0 -102.0 -99.0 -96.0 -93.0 -90.0 -87.0 -84.0 -81.0 -78.0 -75.0 -72.0 -69.0 -66.0 -63.0 -60.0 -57.0 -54.0 -51.0 -48.0 -45.0 -42.0 -39.0 -36.0 -33.0 -30.0 -27.0 -24.0 -21.0 -18.0 -15.0 -12.0 -9.0 -6.0 -3.0 0.0 3.0 6.0 9.0 12.0 15.0 18.0 21.0 24.0 27.0 30.0 33.0 36.0 39.0 42.0 45.0 48.0 51.0 54.0 57.0 60.0 63.0 66.0 69.0 72.0 75.0 78.0 81.0 84.0 87.0 90.0 93.0 96.0 99.0 102.0 105.0 108.0 111.0 114.0 117.0 120.0 123.0 126.0 129.0 132.0 135.0 138.0 141.0 144.0 147.0 150.0 153.0 156.0 159.0 162.0 165.0 168.0 171.0 174.0 177.0 180.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
O-B wind direction (deg.) for identifier 52650
Number of obs. plotted = 142 Number of outliers = 0

O-B wind direction (deg.) for identifier 62697
Number of obs. plotted = 98 Number of outliers = 0
O-B wind direction (deg.)
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
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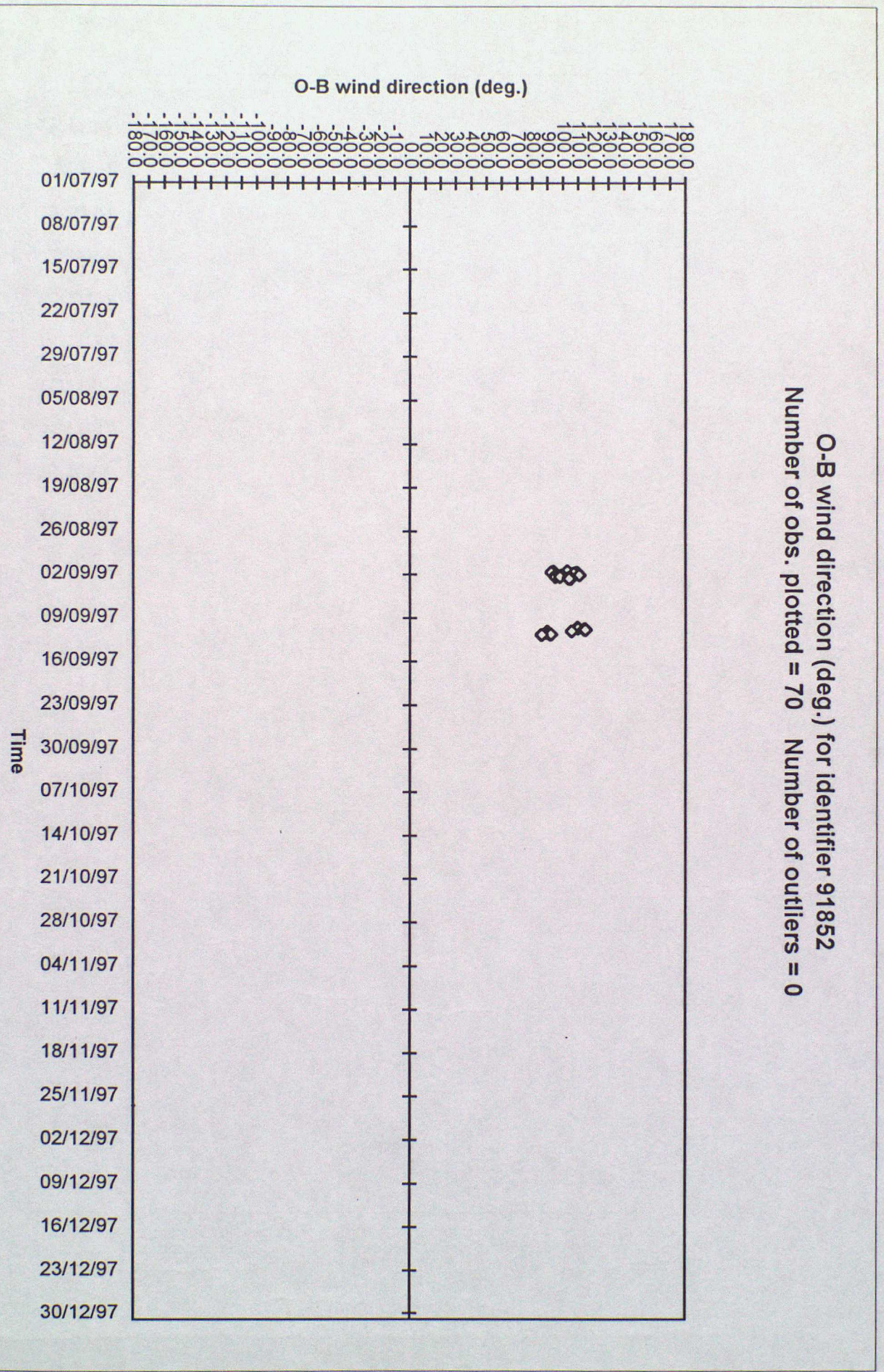
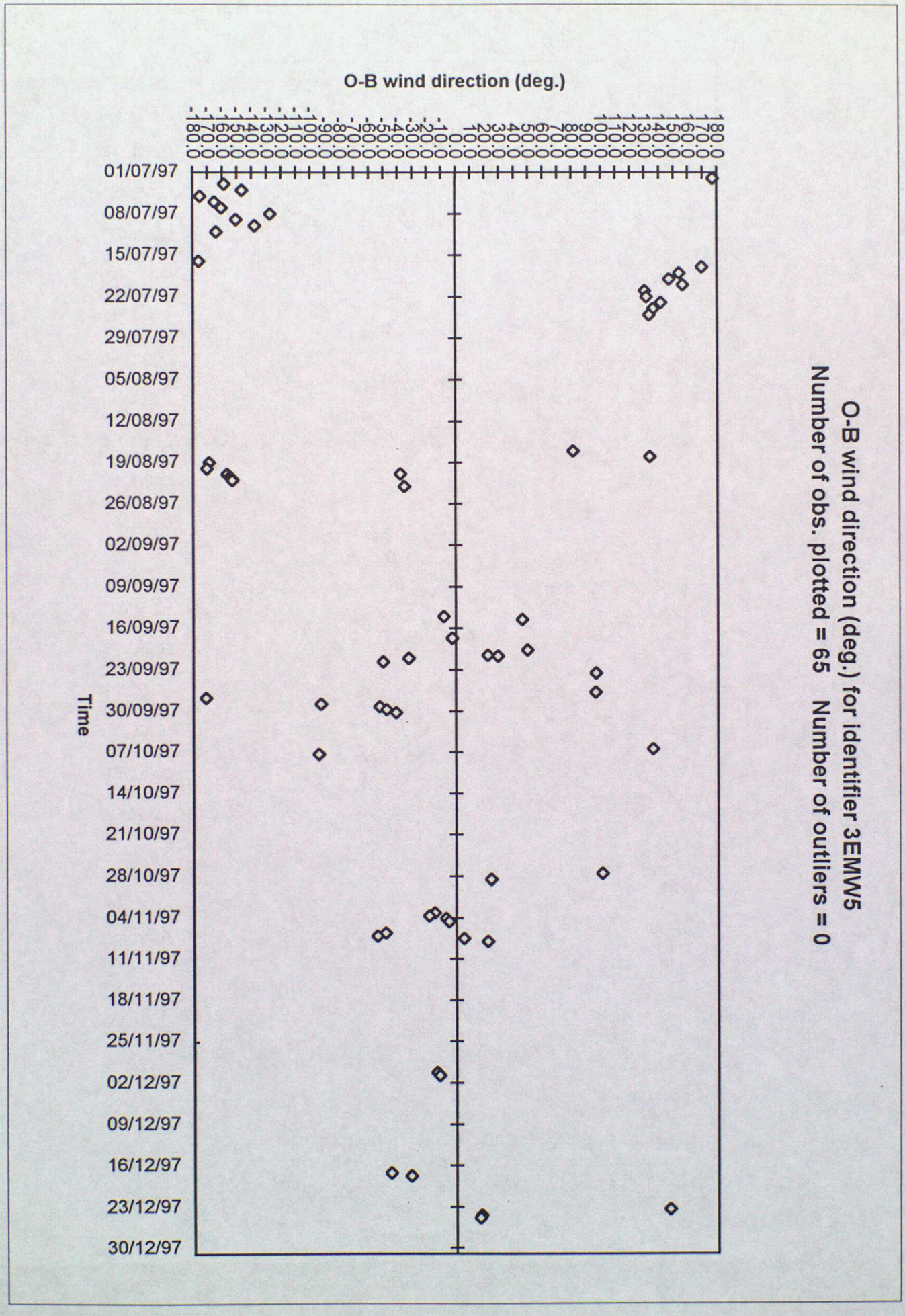
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

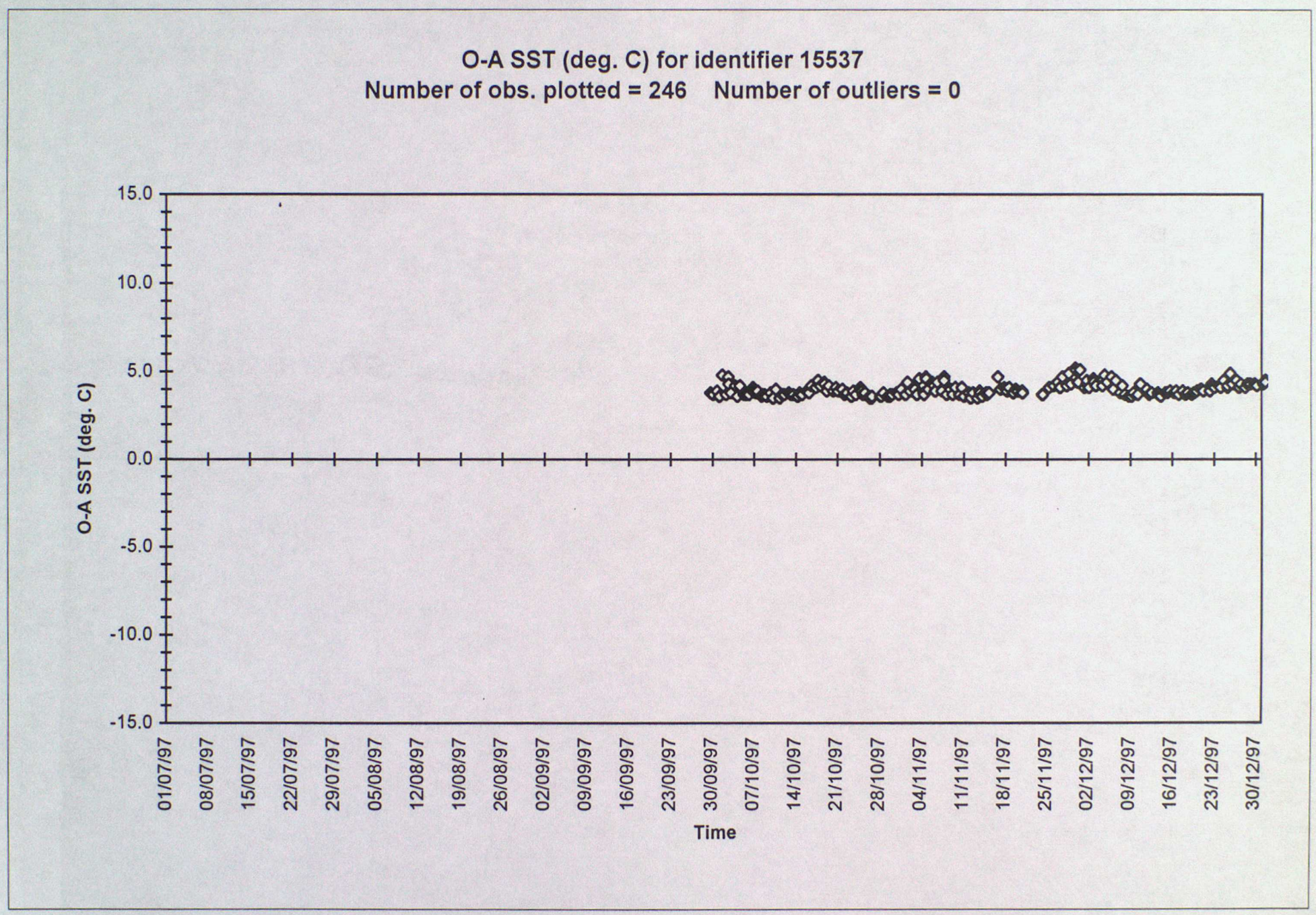

O-B wind direction (deg.)
-180.0
-170.0
-160.0
-150.0
-140.0
-130.0
-120.0
-110.0
-100.0
-90.0
-80.0
-70.0
-60.0
-50.0
-40.0
-30.0
-20.0
-10.0
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
110.0
120.0
130.0
140.0
150.0
160.0
170.0
180.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time
O-B wind direction (deg.) for identifier 91852
Number of obs. plotted = 70 Number of outliers = 0

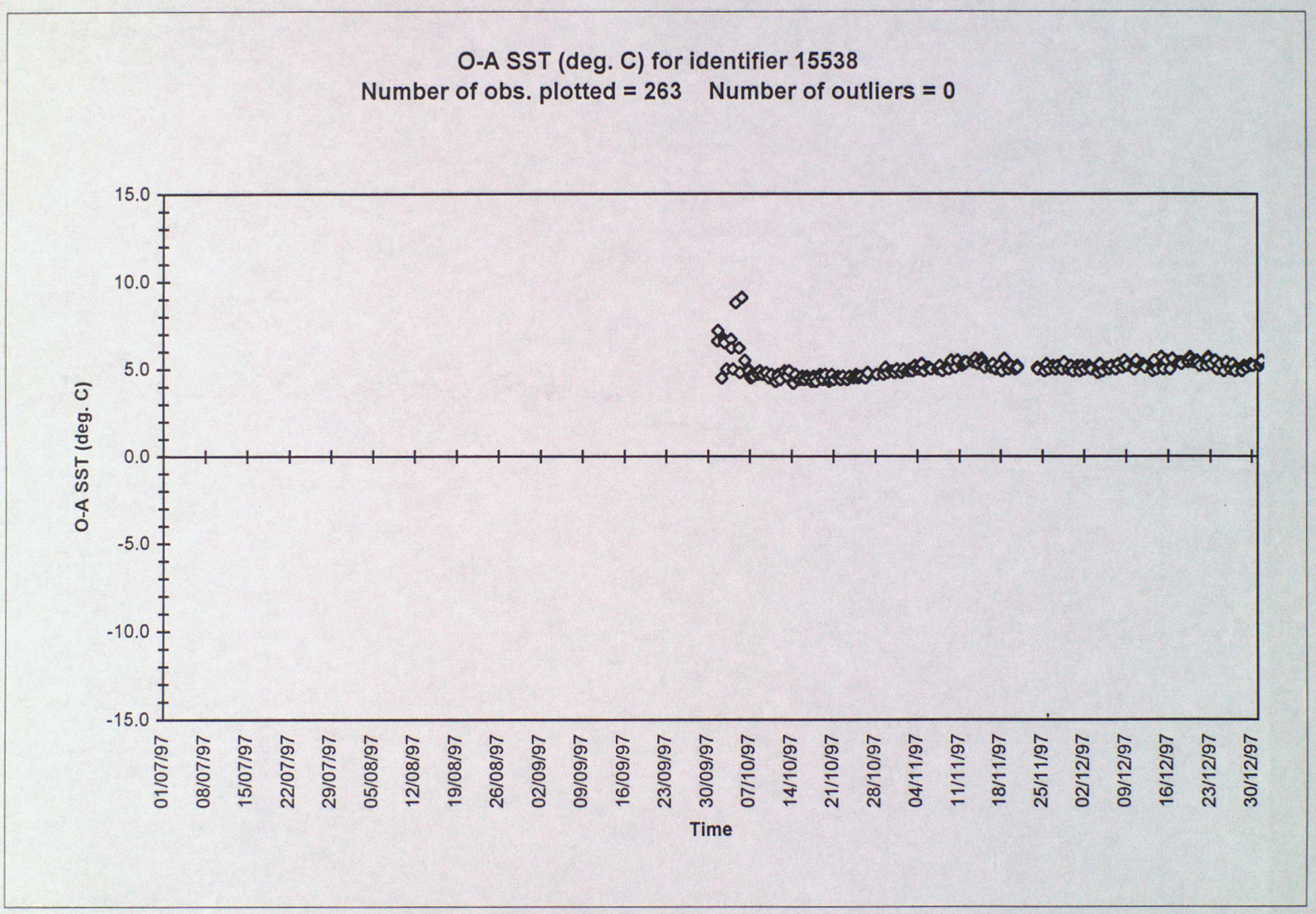
O-B wind direction (deg.) for identifier ZCBE7
Number of obs. plotted = 115 Number of outliers = 0
O-B wind direction (deg.)
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-B wind direction (deg.)
-180
-170
-160
-150
-140
-130
-120
-110
-100
-90
-80
-70
-60
-50
-40
-30
-20
-10
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
O-B wind direction (deg.) for identifier 3EMW5
Number of obs. plotted = 65 Number of outliers = 0

O-B wind direction (deg.) for identifier 3FSL4
Number of obs. plotted = 154 Number of outliers = 0
O-B wind direction (deg.)
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time
O-A SST (deg. C) for identifier 15534
Number of obs. plotted = 322 Number of outliers = 12


O-A SST (deg. C) for identifier 15537
Number of obs. plotted = 246 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time


O-A SST (deg. C) for identifier 15538
Number of obs. plotted = 263 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier 17536
Number of obs. plotted = 207 Number of outliers = 0
O-A SST (deg. C)
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier 21535

Number of obs. plotted = 452 Number of outliers = 0

O-A SST (deg. C) for identifier 21927
Number of obs. plotted = 392 Number of outliers = 2
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier 21939
Number of obs. plotted = 65 Number of outliers = 0
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

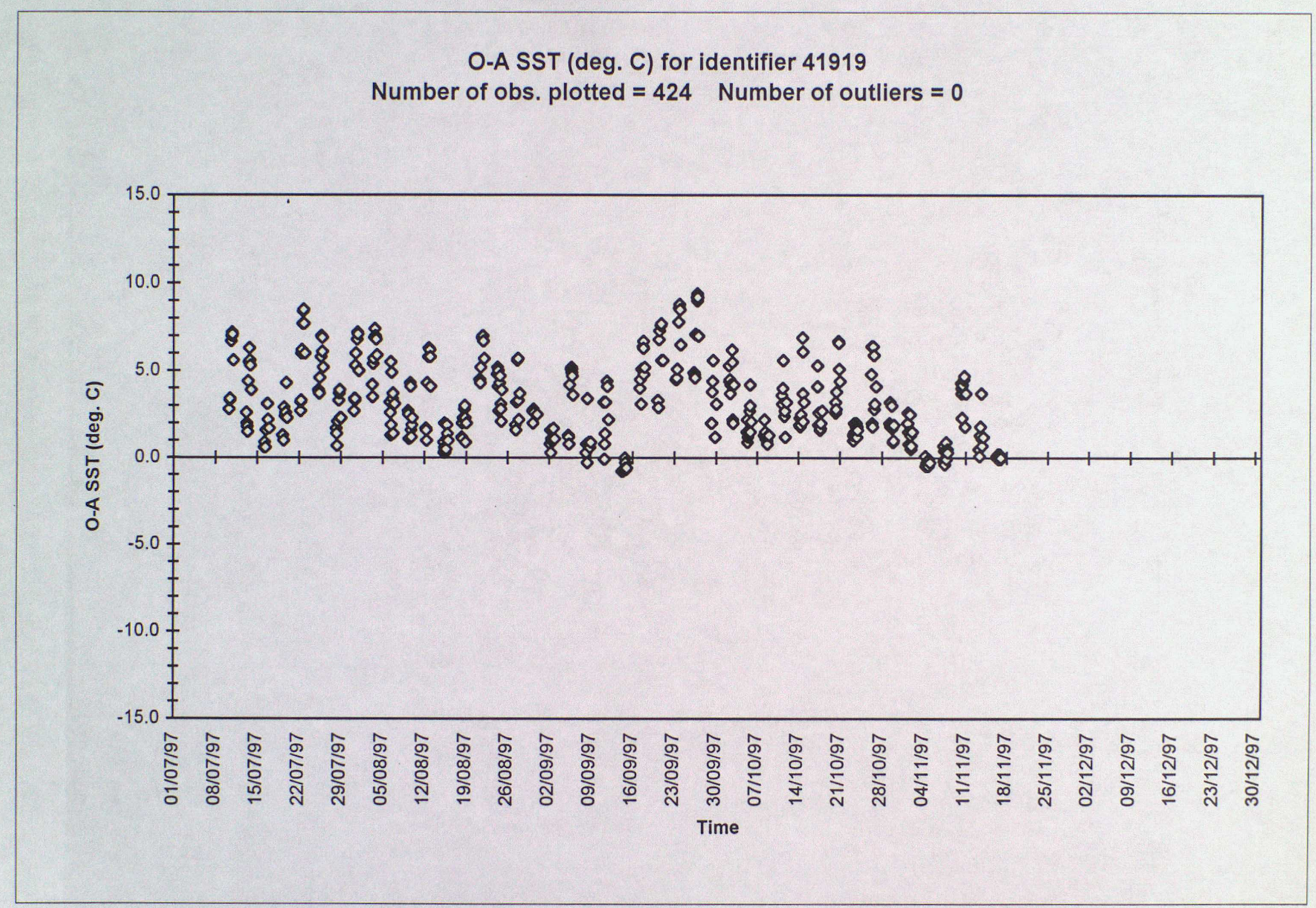
O-A SST (deg. C) for identifier 23946
Number of obs. plotted = 161 Number of outliers = 0
O-A SST (deg. C)
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier 33501
Number of obs. plotted = 236 Number of outliers = 0
O-A SST (deg. C)
-30.0
-25.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
25.0
30.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

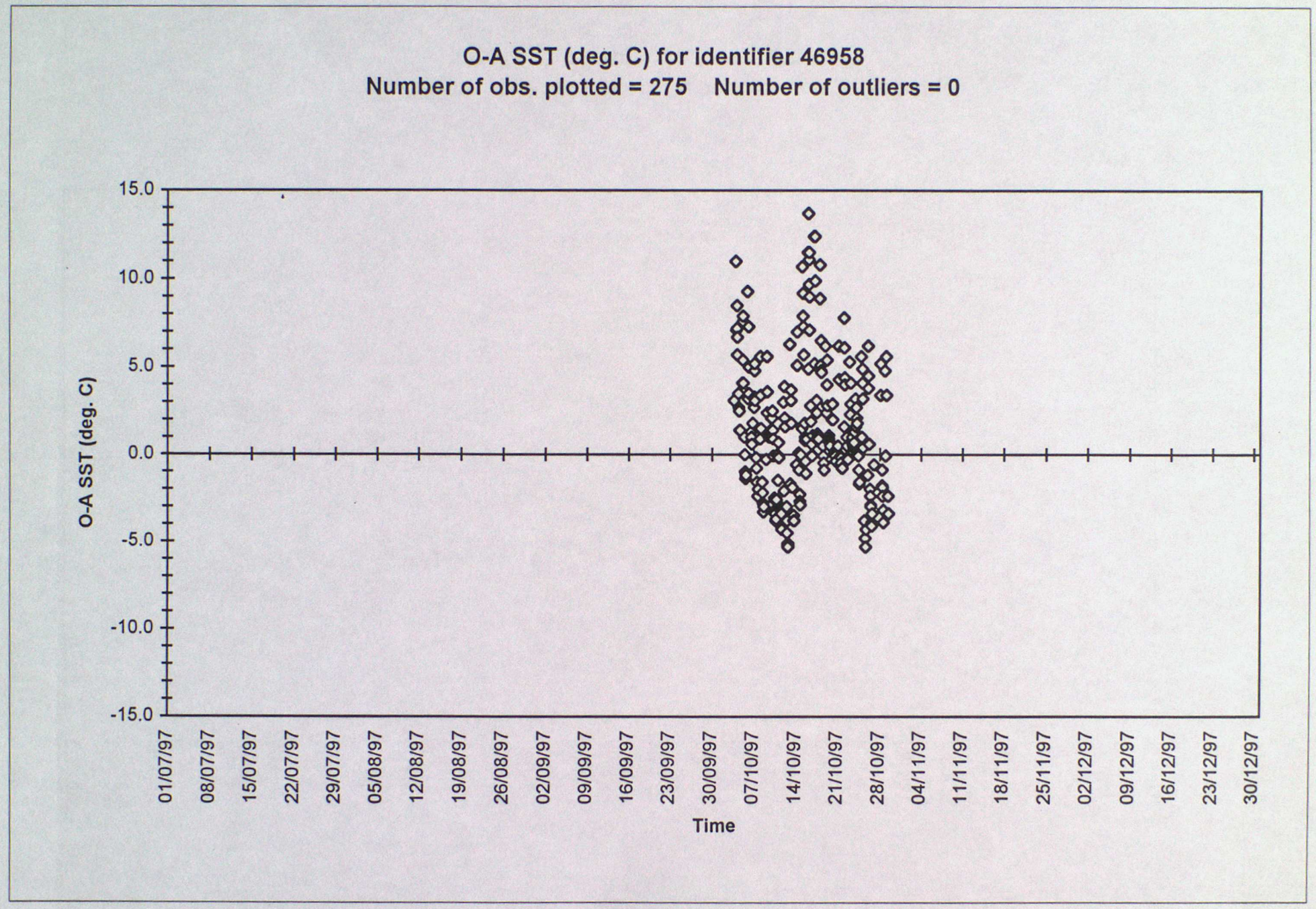
O-A SST (deg. C) for identifier 41528
Number of obs. plotted = 74 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

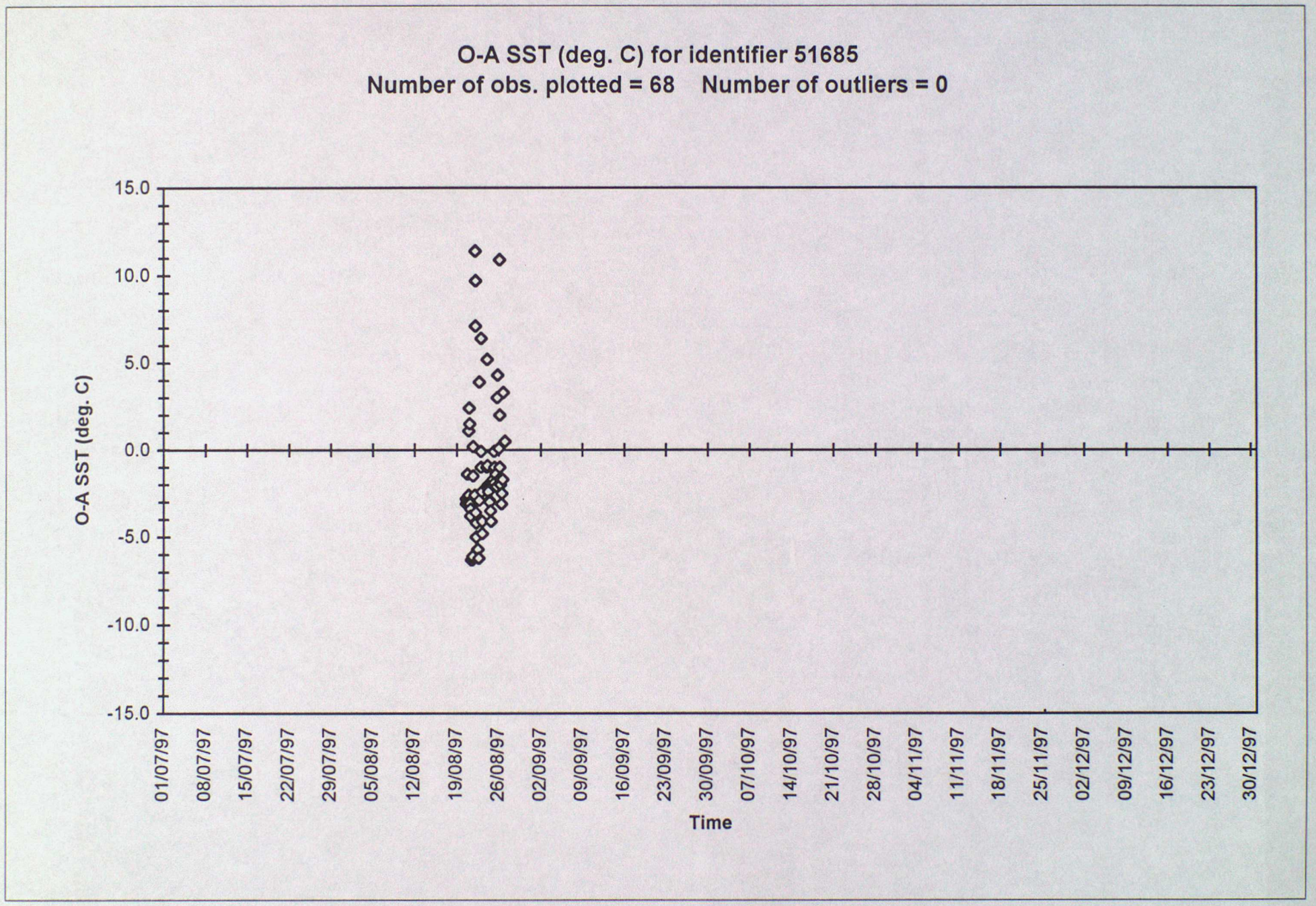
O-A SST (deg. C) for identifier 41619

Number of obs. plotted = 300 Number of outliers = 0


O-A SST (deg. C) for identifier 41919
Number of obs. plotted = 424 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier 44926
Number of obs. plotted = 692 Number of outliers = 2
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

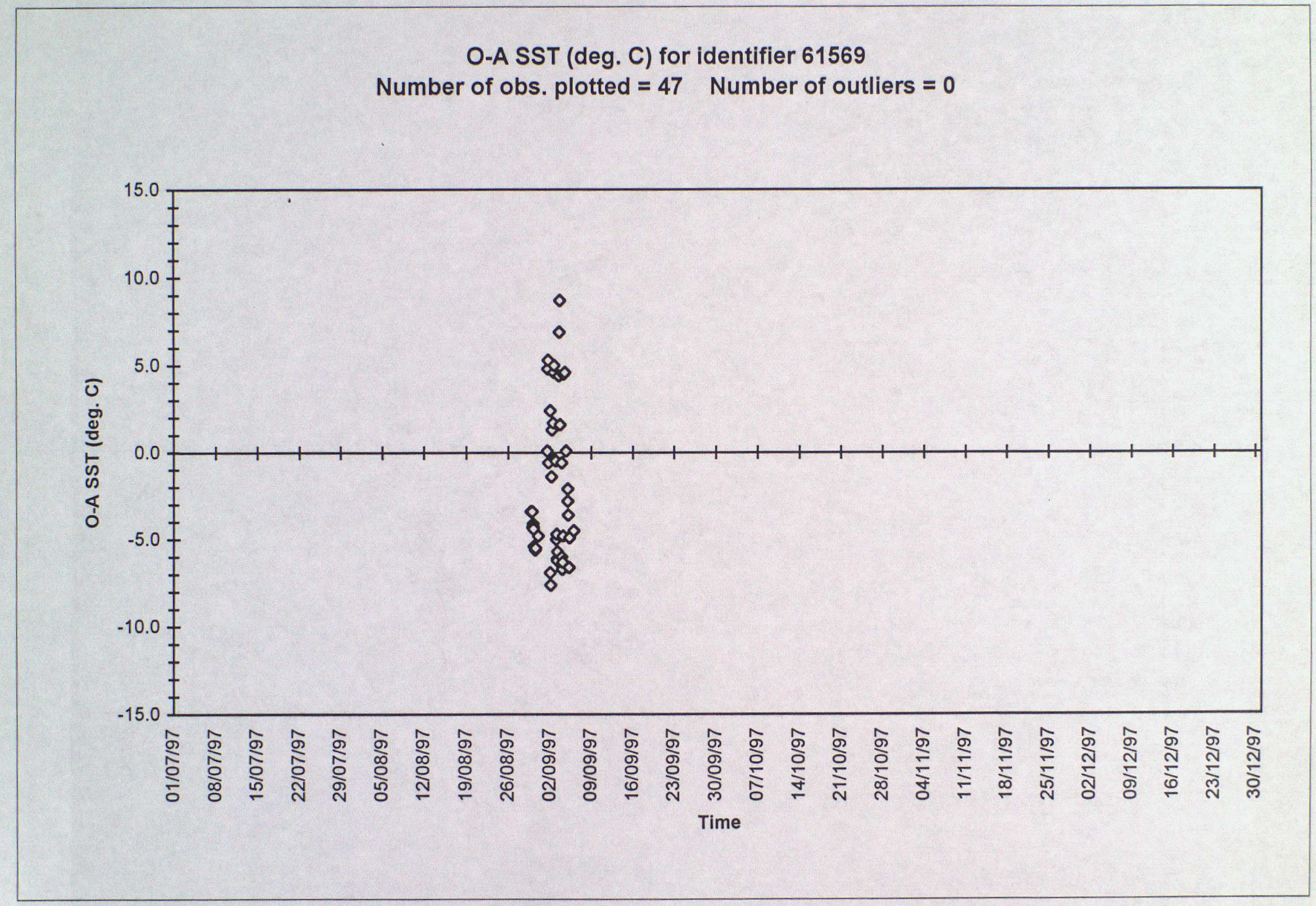

O-A SST (deg. C) for identifier 46958
Number of obs. plotted = 275 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time


O-A SST (deg. C) for identifier 51685
Number of obs. plotted = 68 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

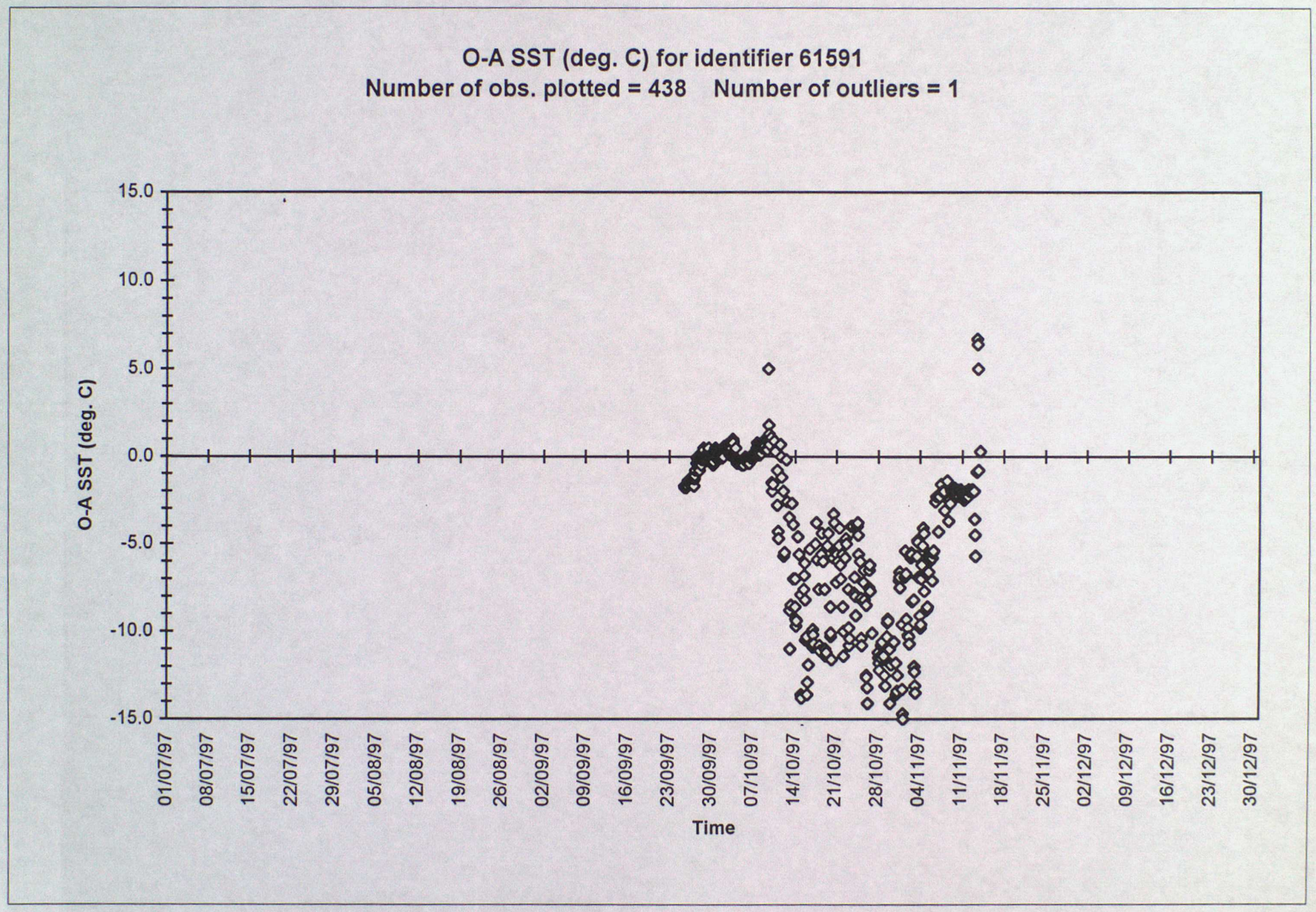
O-A SST (C) for identifier 56609
Number of obs. plotted = 241 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier 61517

Number of obs. plotted = 50 Number of outliers = 0

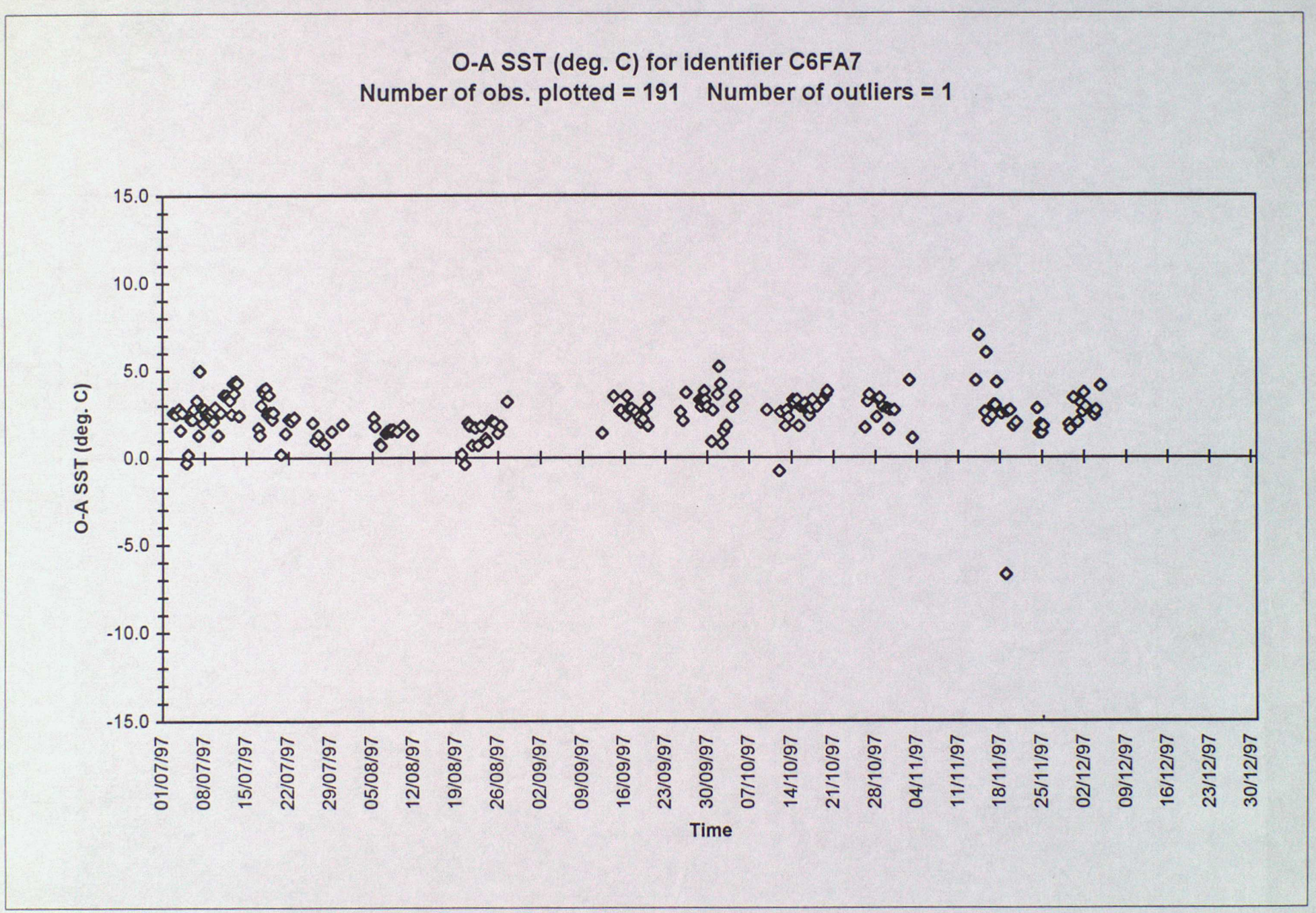

O-A SST (deg. C) for identifier 61569
Number of obs. plotted = 47 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time
O-A SST (deg. C) for identifier 61582
Number of obs. plotted = 385 Number of outliers = 2

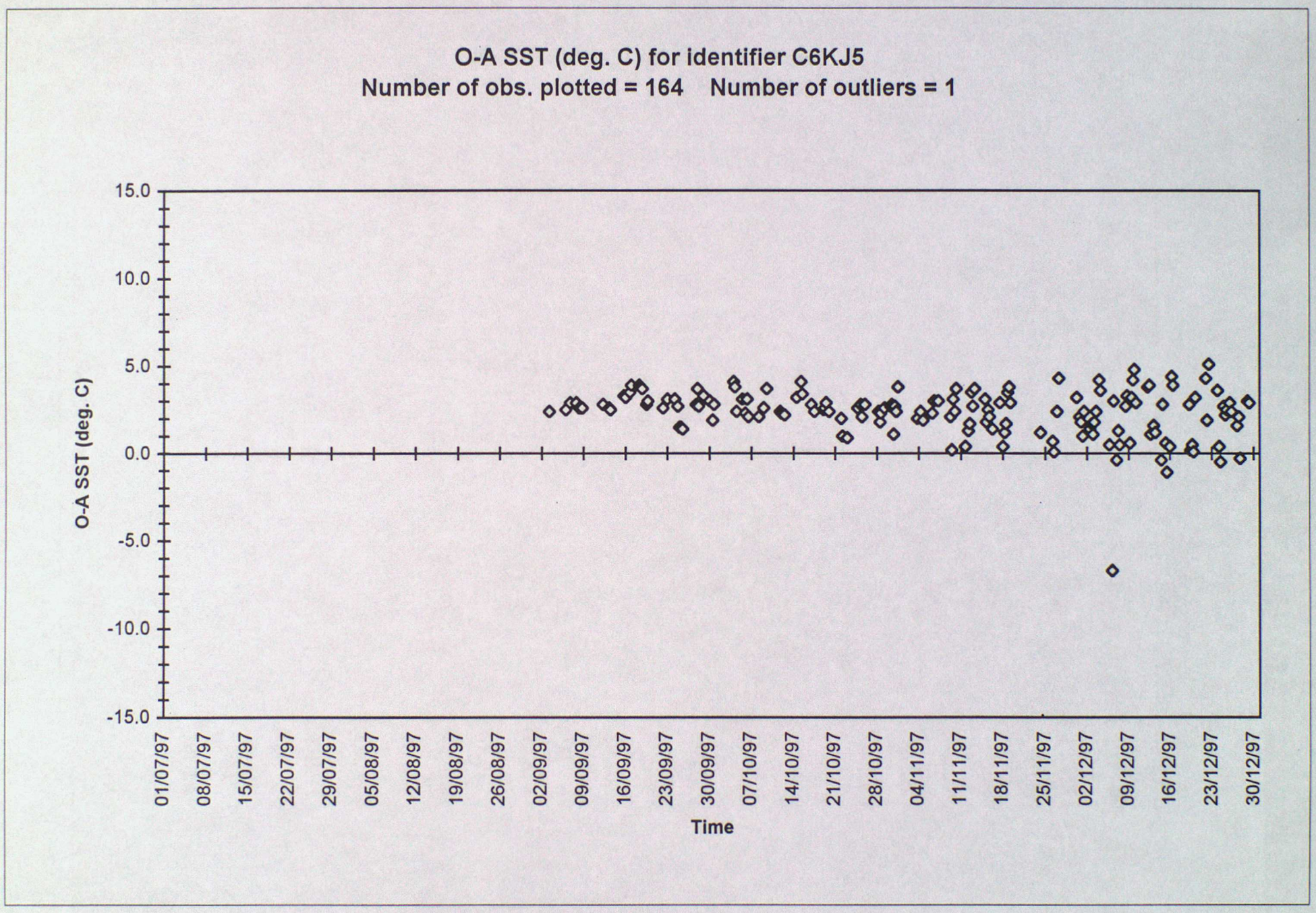

O-A SST (deg. C) for identifier 61591
Number of obs. plotted = 438 Number of outliers = 1
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier CTFE
Number of obs. plotted = 62 Number of outliers = 3
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier C6BT8
Number of obs. plotted = 76 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

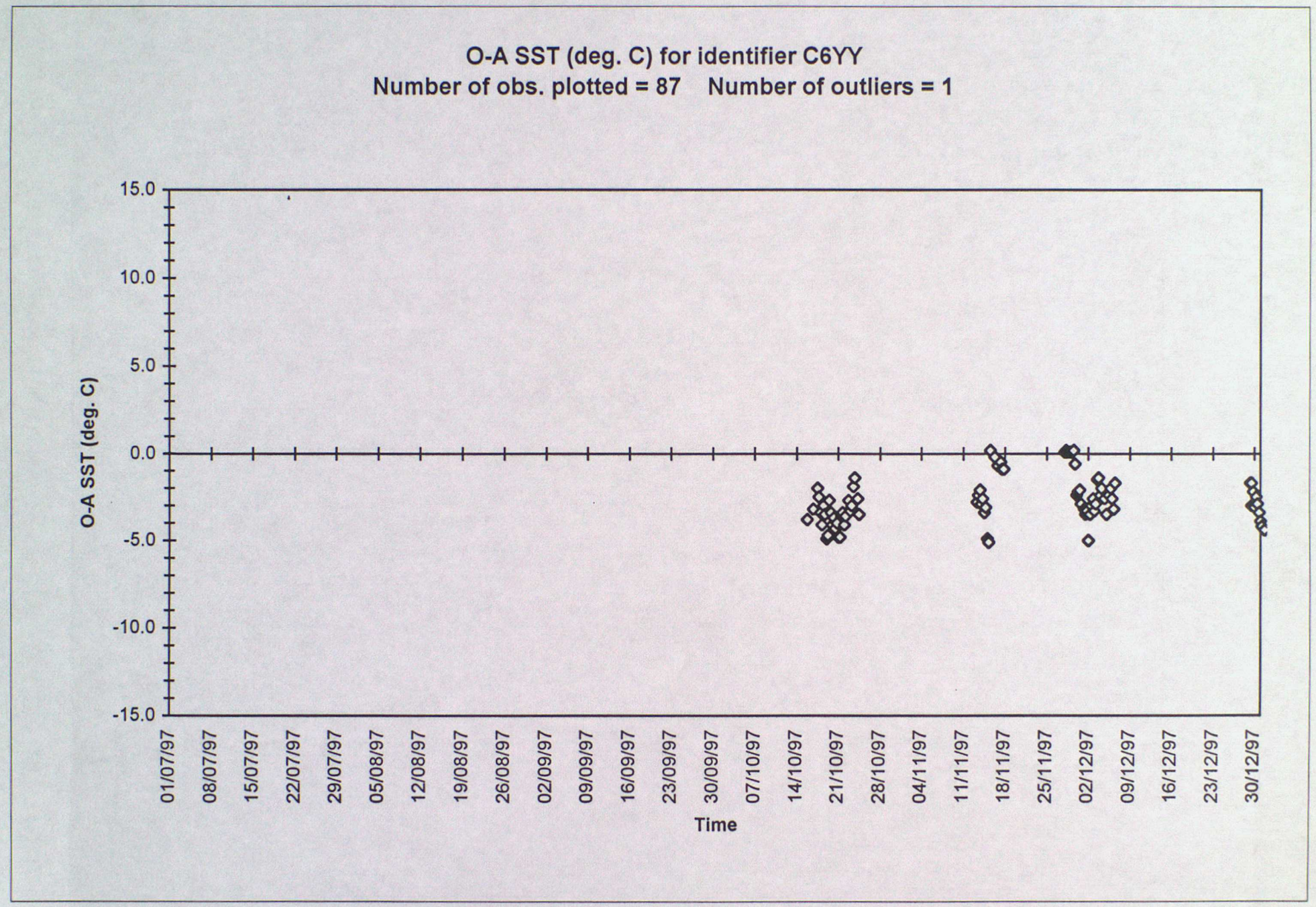

O-A SST (deg. C) for identifier C6FA7
Number of obs. plotted = 191 Number of outliers = 1
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier C6IM2
Number of obs. plotted = 42 Number of outliers = 3
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

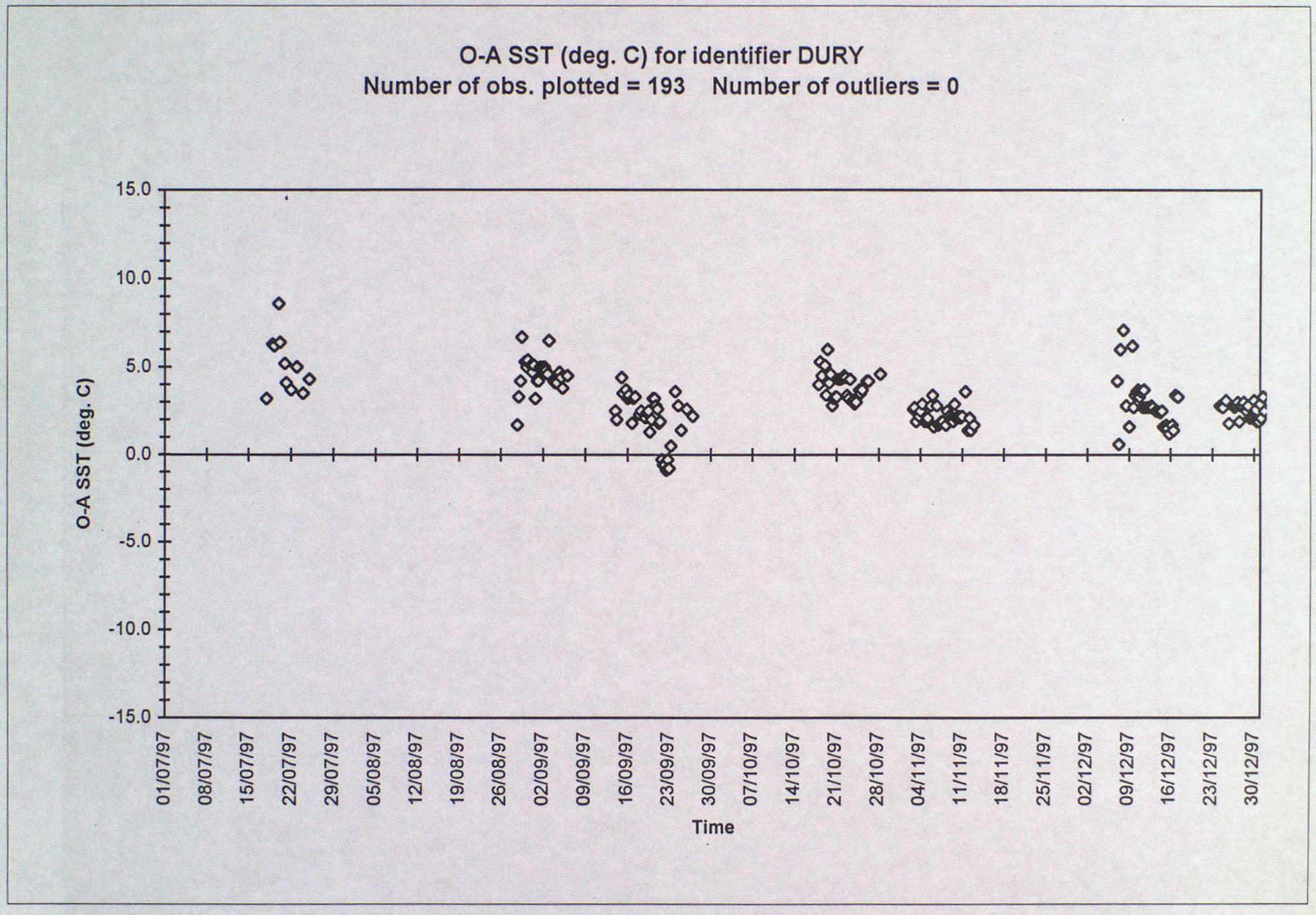

O-A SST (deg. C) for identifier C6KJ5
Number of obs. plotted = 164 Number of outliers = 1
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier C6MS4
Number of obs. plotted = 91 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

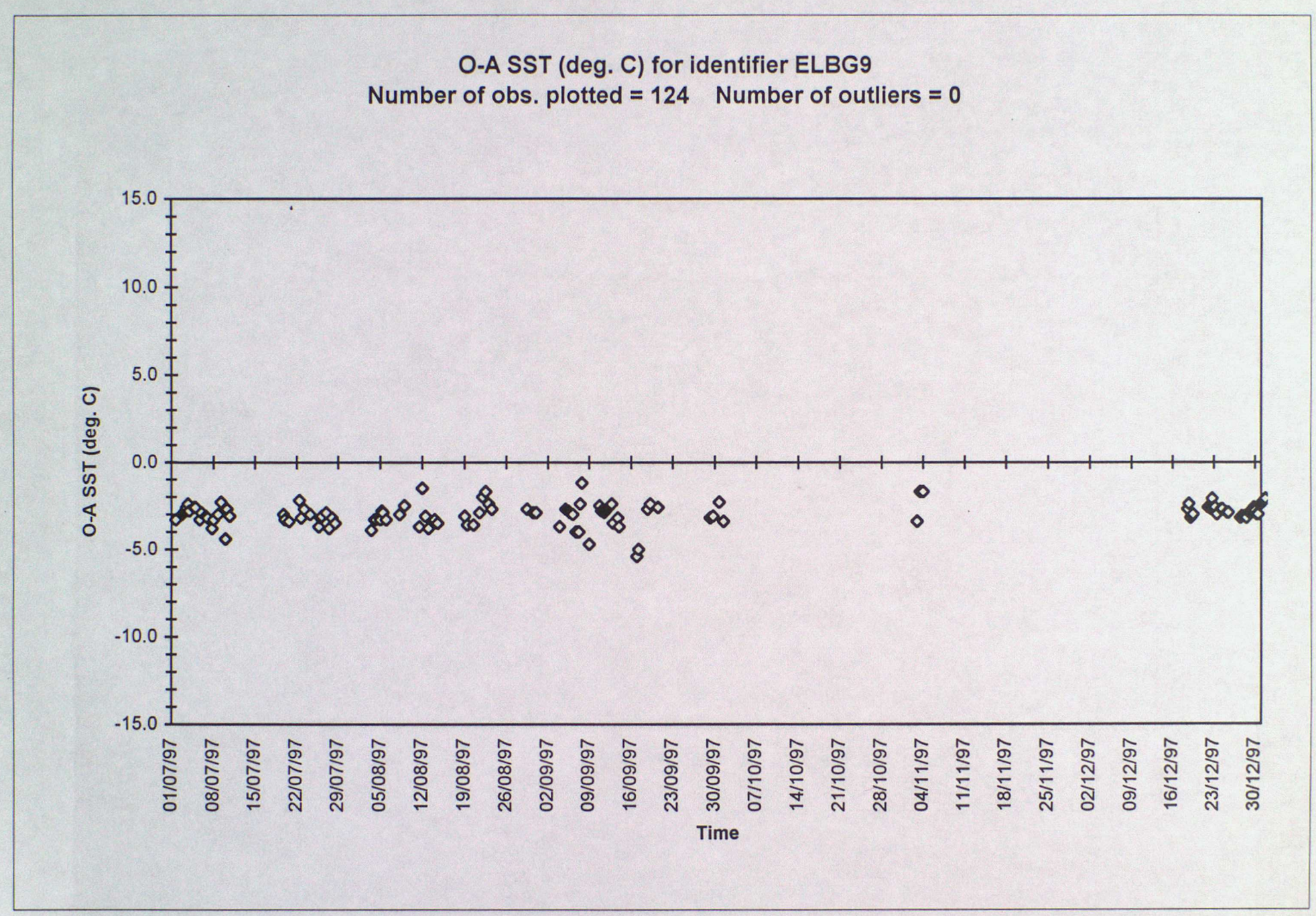
O-A SST (deg. C) for identifier C6T2064
Number of obs. plotted = 133 Number of outliers = 0
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

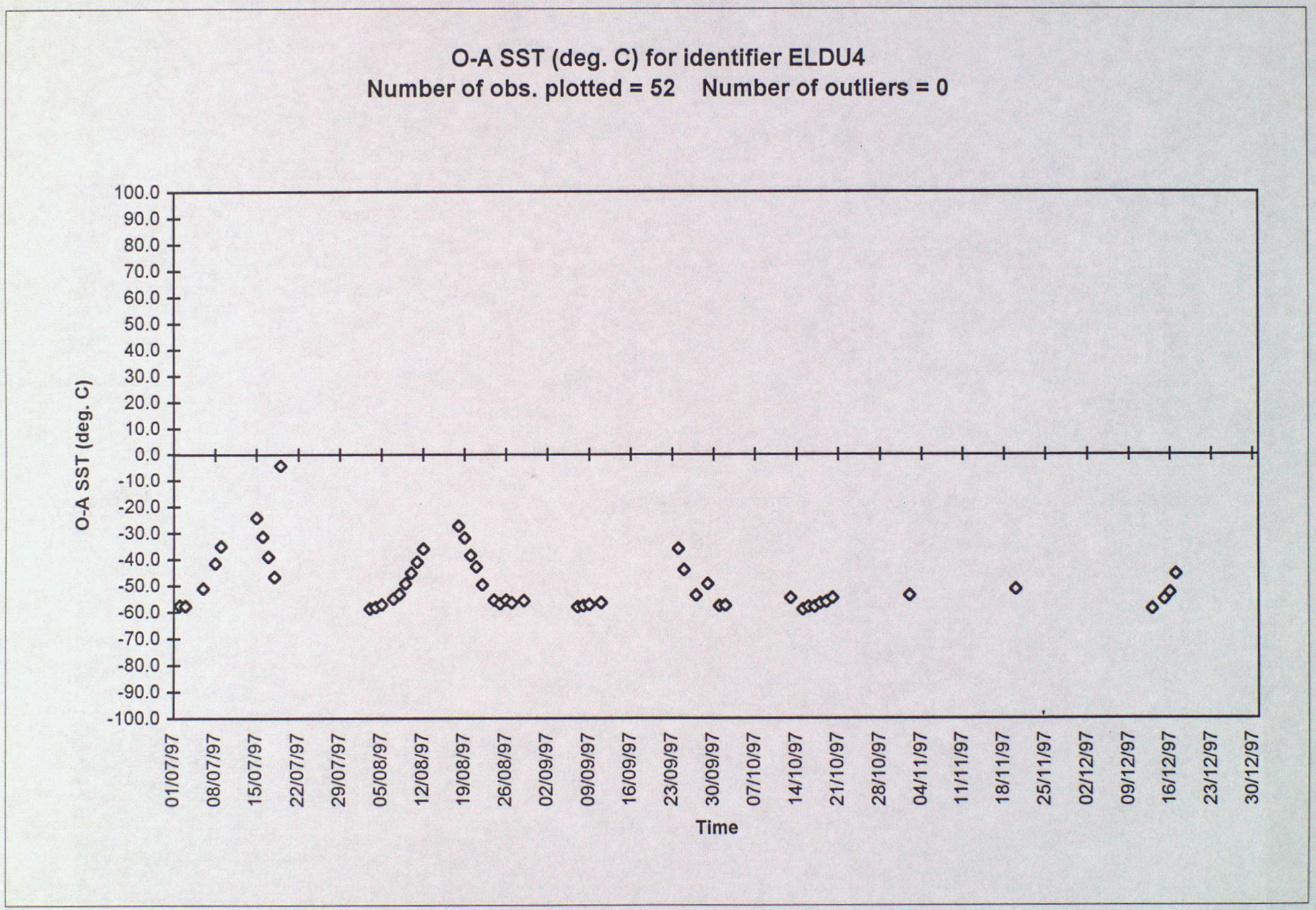

O-A SST (deg. C) for identifier C6YY
Number of obs. plotted = 87 Number of outliers = 1
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier DS6ESD
Number of obs. plotted = 90 Number of outliers = 0
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-A SST (deg. C) for identifier DURY
Number of obs. plotted = 193 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier DZDI
Number of obs. plotted = 60 Number of outliers = 0
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-A SST (deg. C) for identifier ELBG9
Number of obs. plotted = 124 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

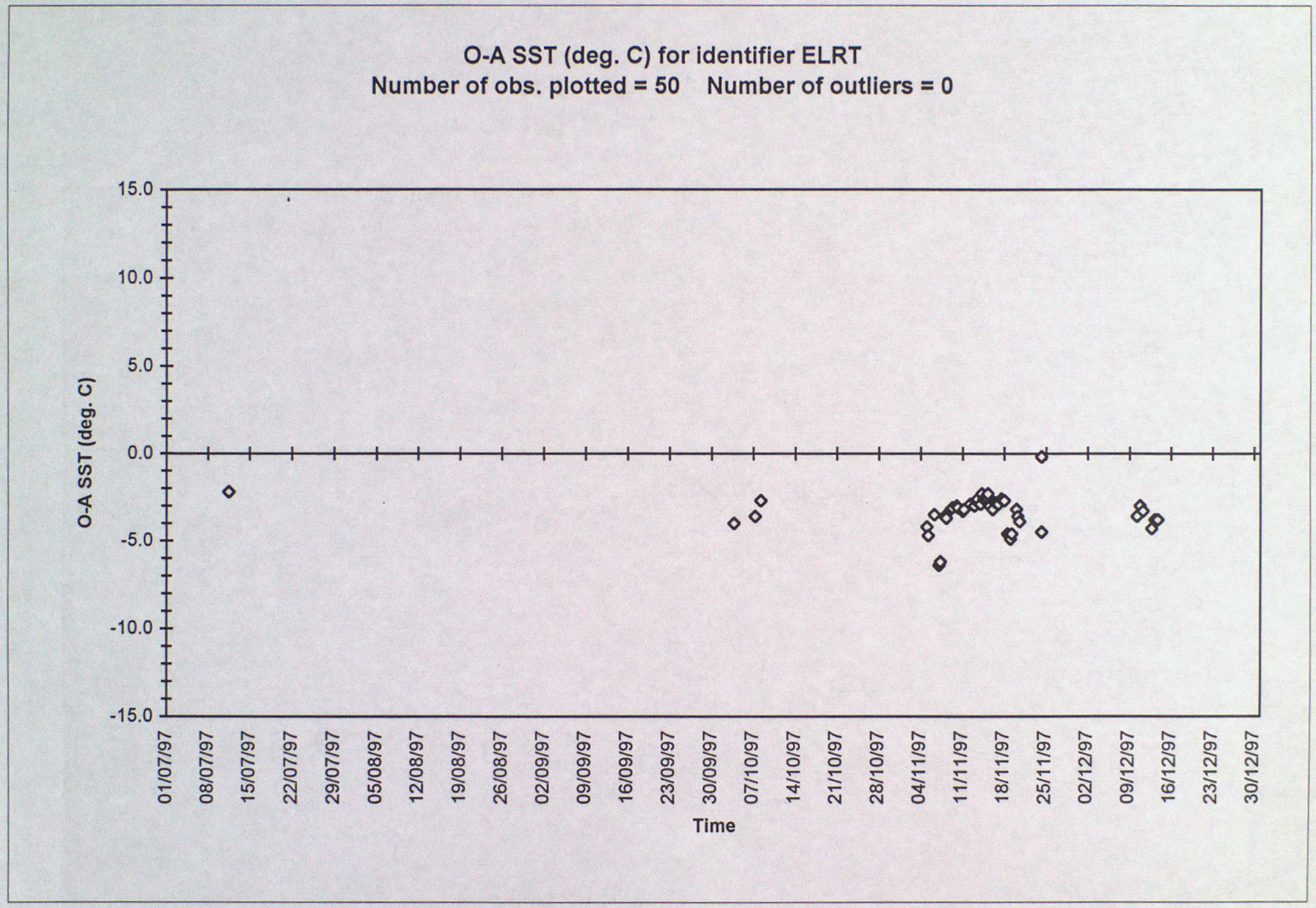

O-A SST (deg. C) for identifier ELDU4
Number of obs. plotted = 52 Number of outliers = 0
O-A SST (deg. C)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier ELKU8
Number of obs. plotted = 86 Number of outliers = 0
O-A SST (deg. c)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

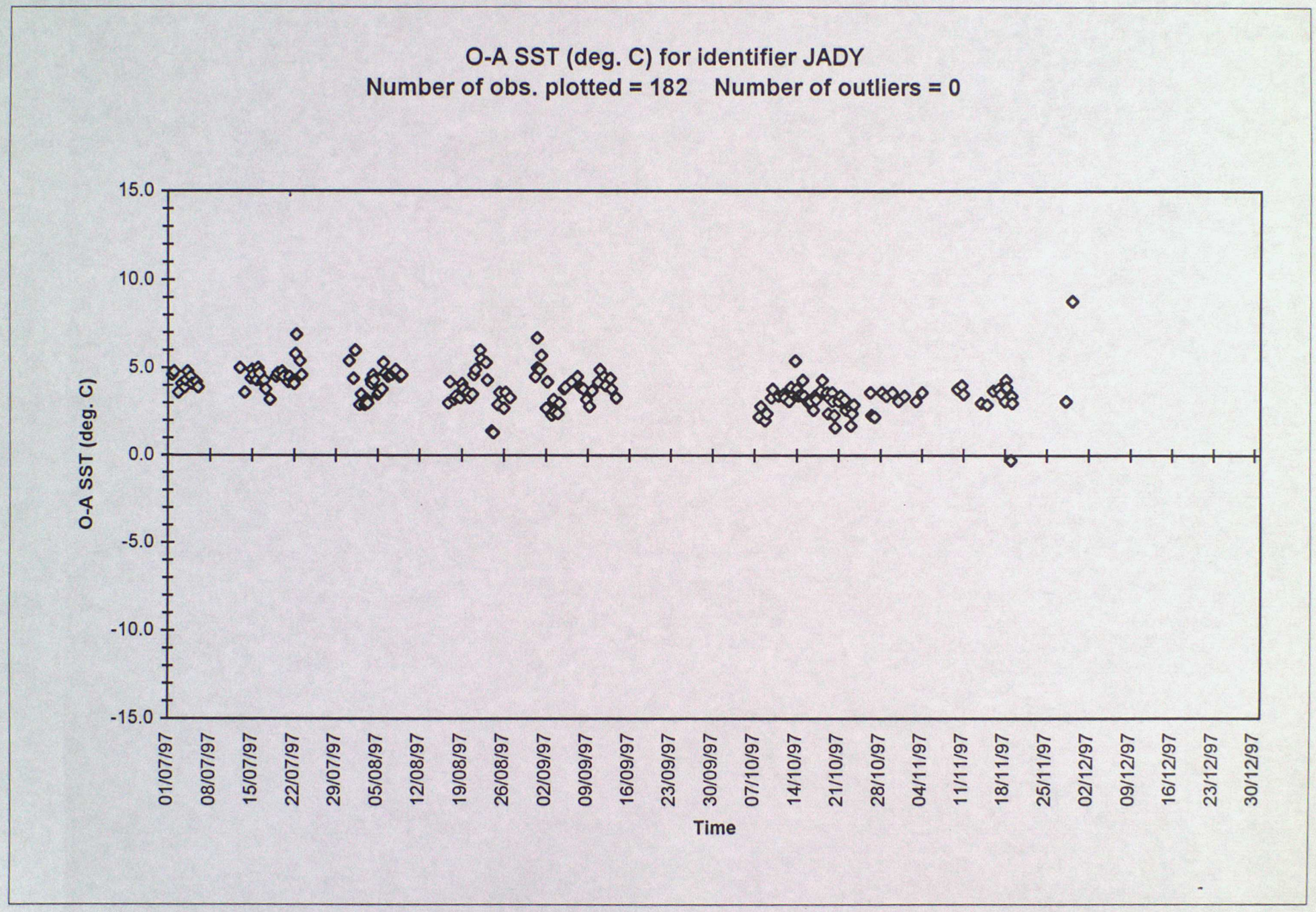
O-A SST (deg. C) for identifier ELMV6
Number of obs. plotted = 59 Number of outliers = 1
O-A SST (deg. C)
-30.0
-25.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
25.0
30.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier ELOW4
Number of obs. plotted = 263 Number of outliers = 3
O-A SST (deg. C)
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier ELRH7
Number of obs. plotted = 104 Number of outliers = 1
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-A SST (deg. C) for identifier ELRT
Number of obs. plotted = 50 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier ELRT3
Number of obs. plotted = 172 Number of outliers = 0
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-A SST (deg. C) for identifier JADY
Number of obs. plotted = 182 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier KBGK
Number of obs. plotted = 185 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier KGJB
Number of obs. plotted = 228 Number of outliers = 4
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
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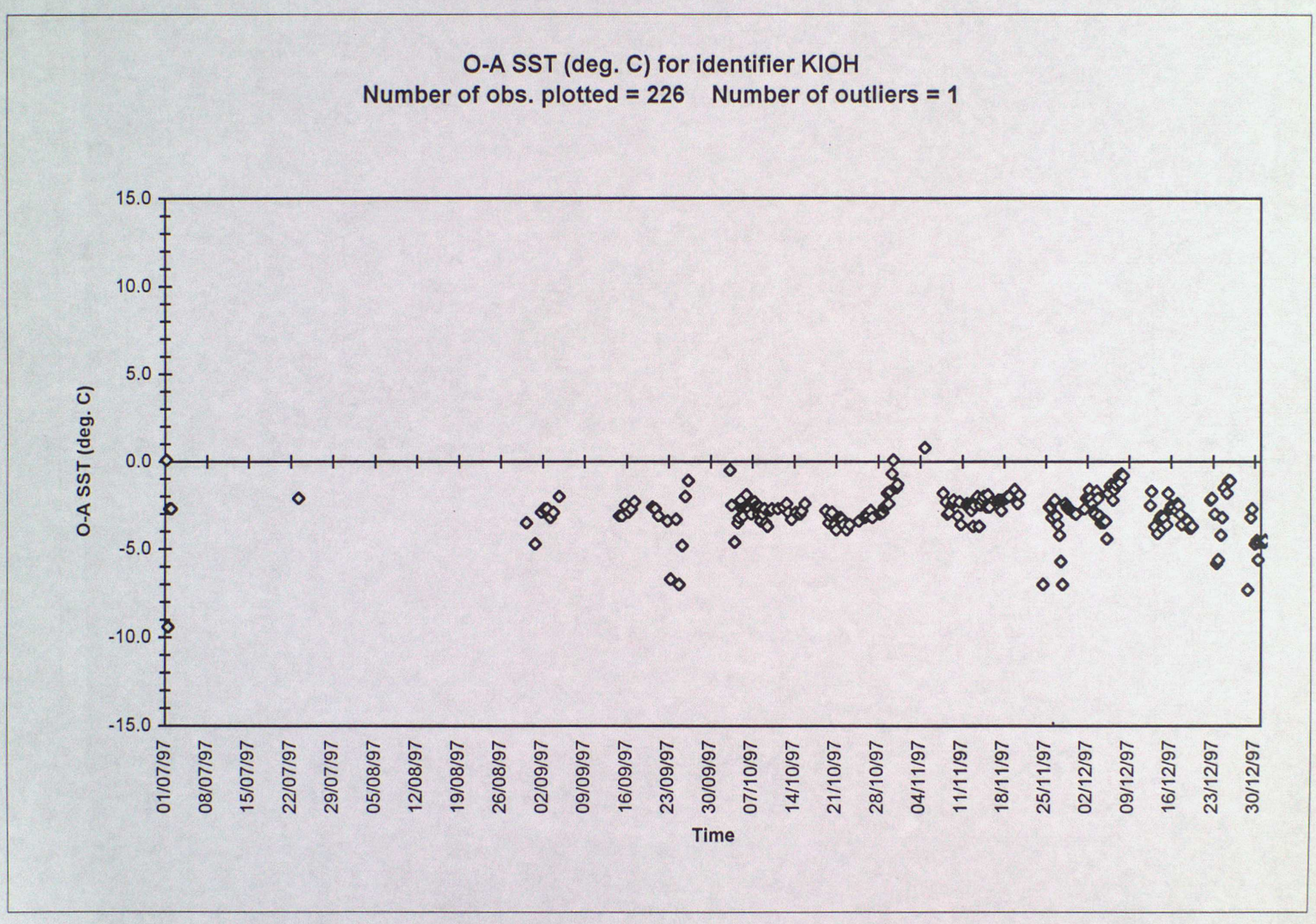
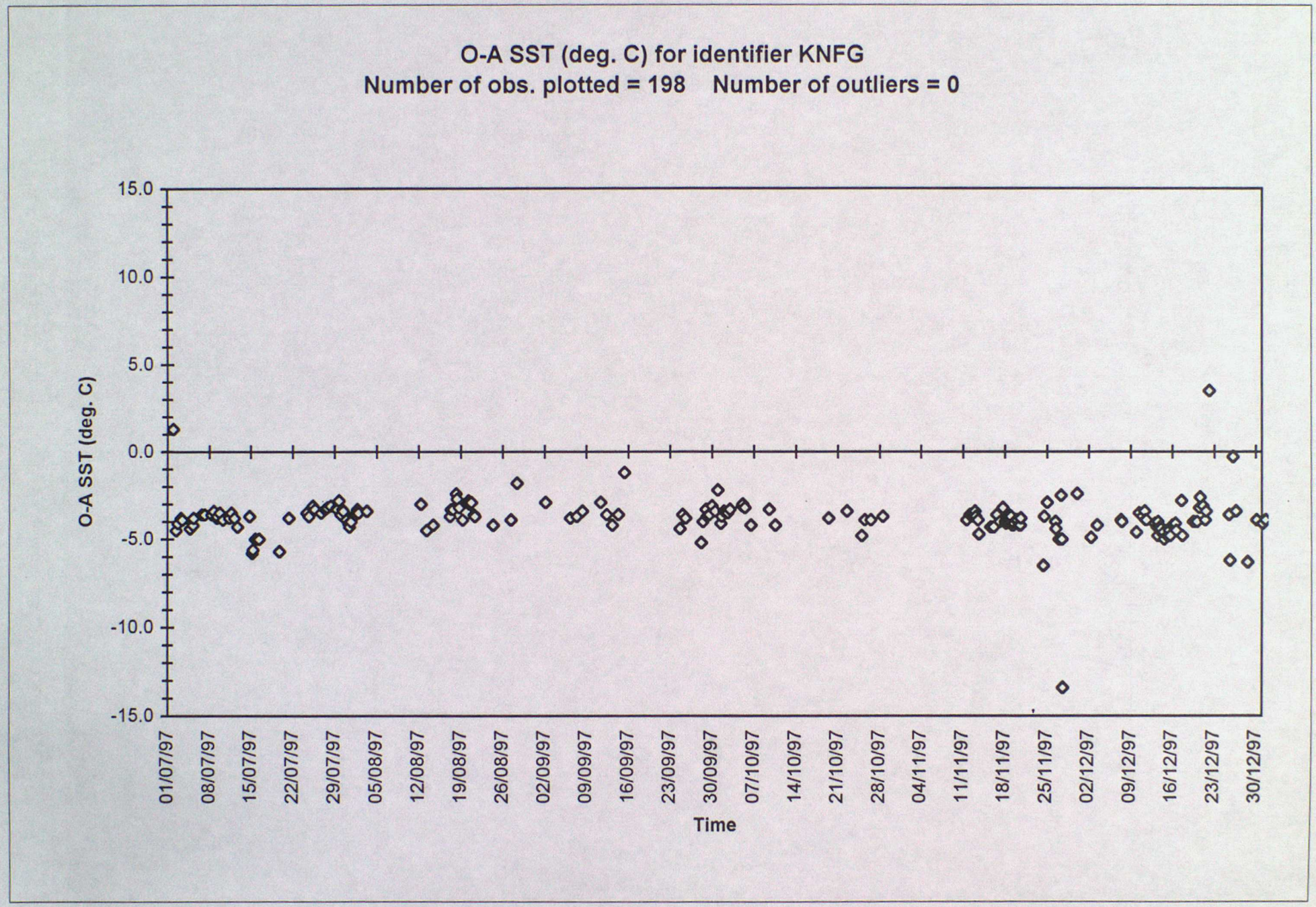
09/12/97
16/12/97
23/12/97
30/12/97


O-A SST (deg. C) for identifier KIOH
Number of obs. plotted = 226 Number of outliers = 1
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier KLKZ

Number of obs. plotted = 82 Number of outliers = 0


O-A SST (deg. C) for identifier KNFG
Number of obs. plotted = 198 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier KNLO
Number of obs. plotted = 103 Number of outliers = 0
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier KRGJ
Number of obs. plotted = 124 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
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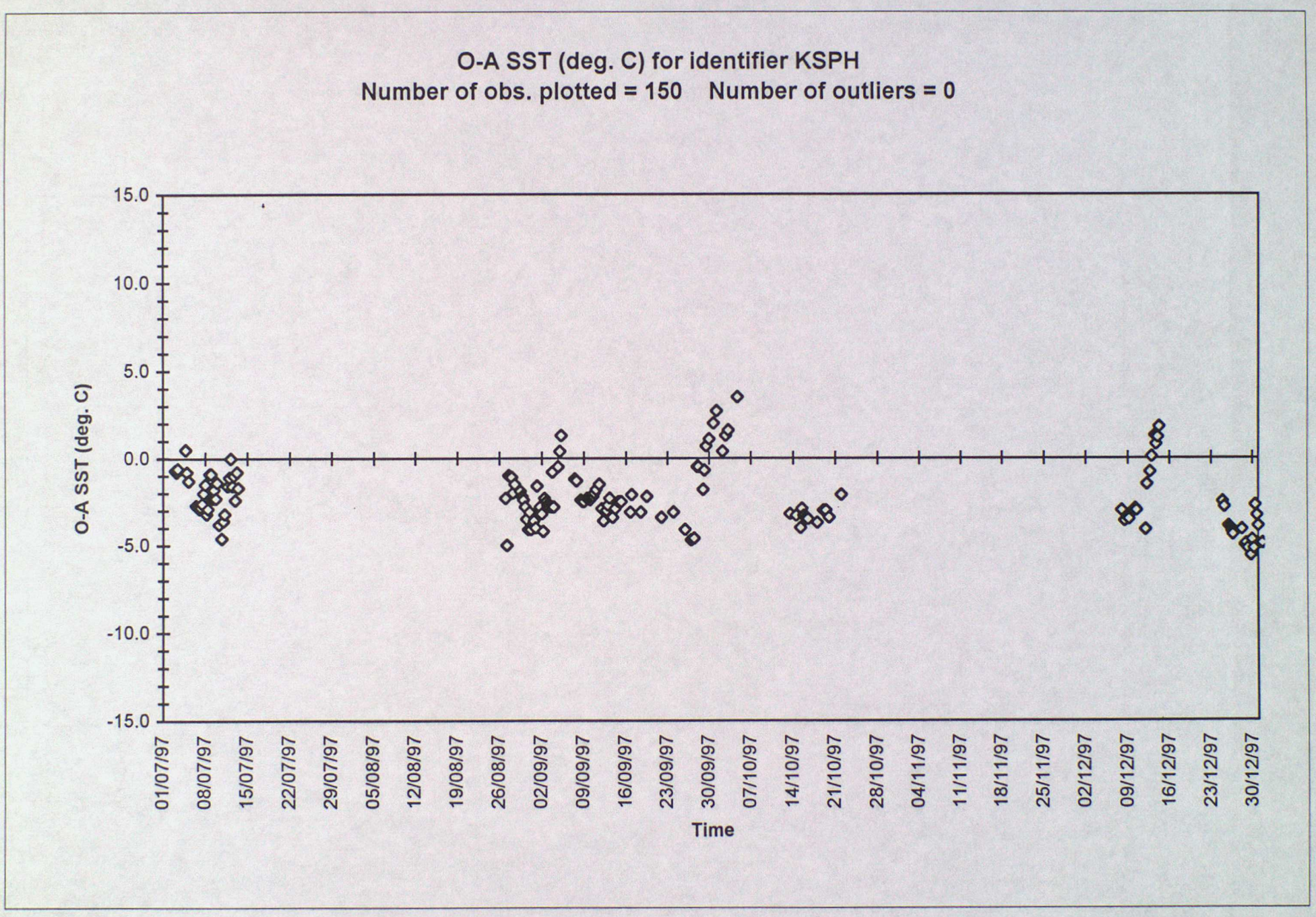
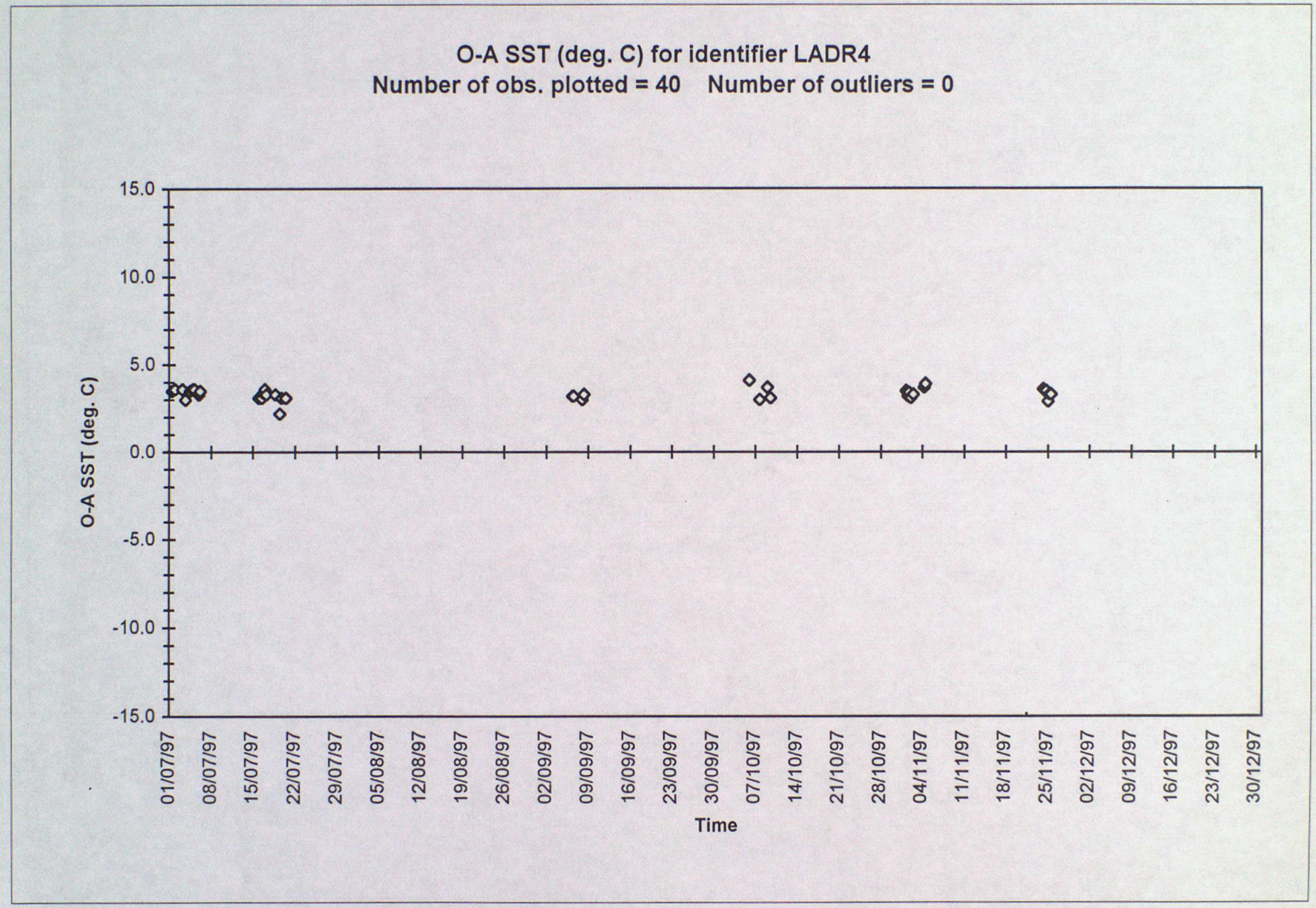
23/12/97
30/12/97

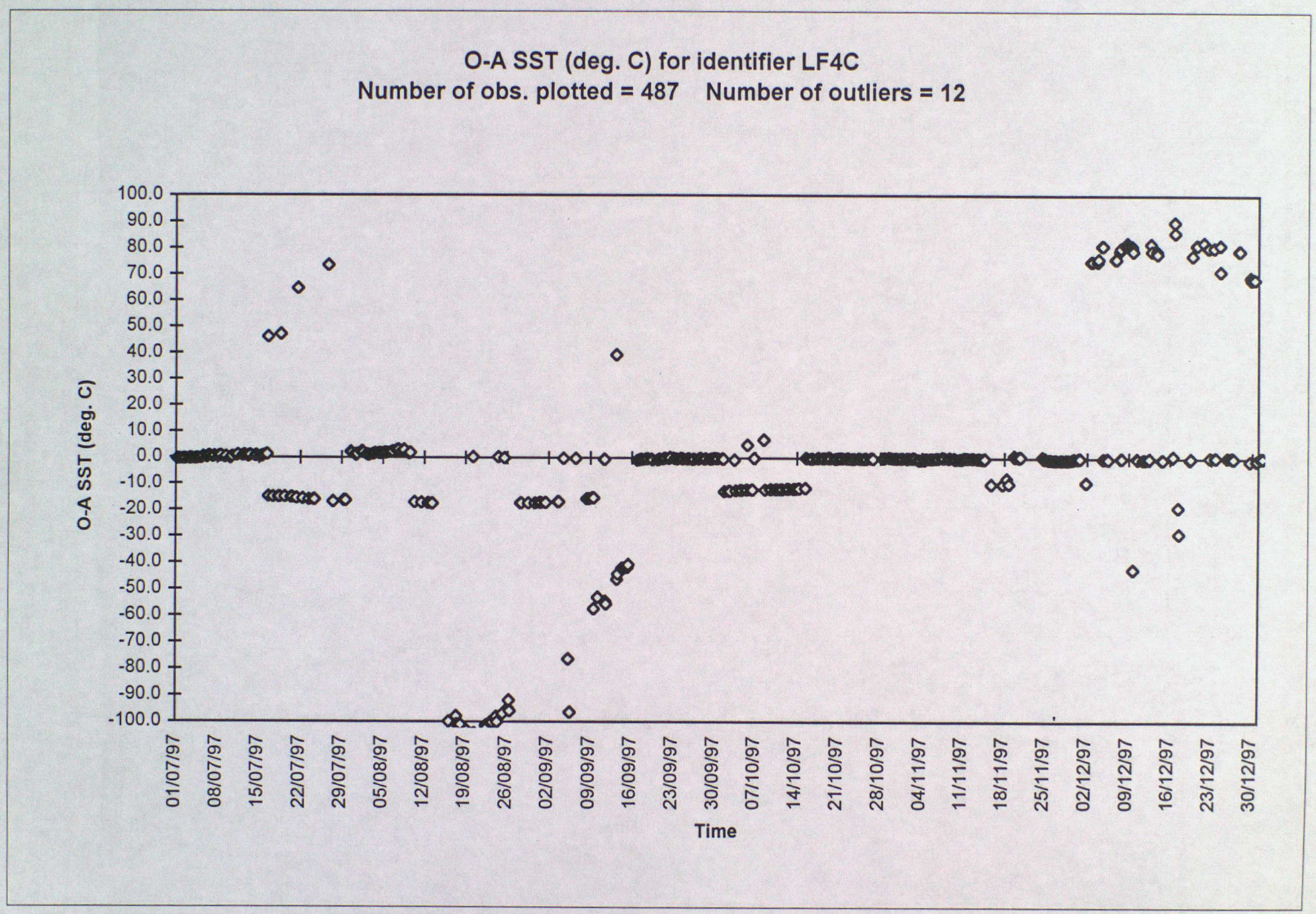

O-A SST (deg. C) for identifier KSPH
Number of obs. plotted = 150 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time


O-A SST (deg. C) for identifier LADR4
Number of obs. plotted = 40 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier LAHG2
Number of obs. plotted = 148 Number of outliers = 1
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

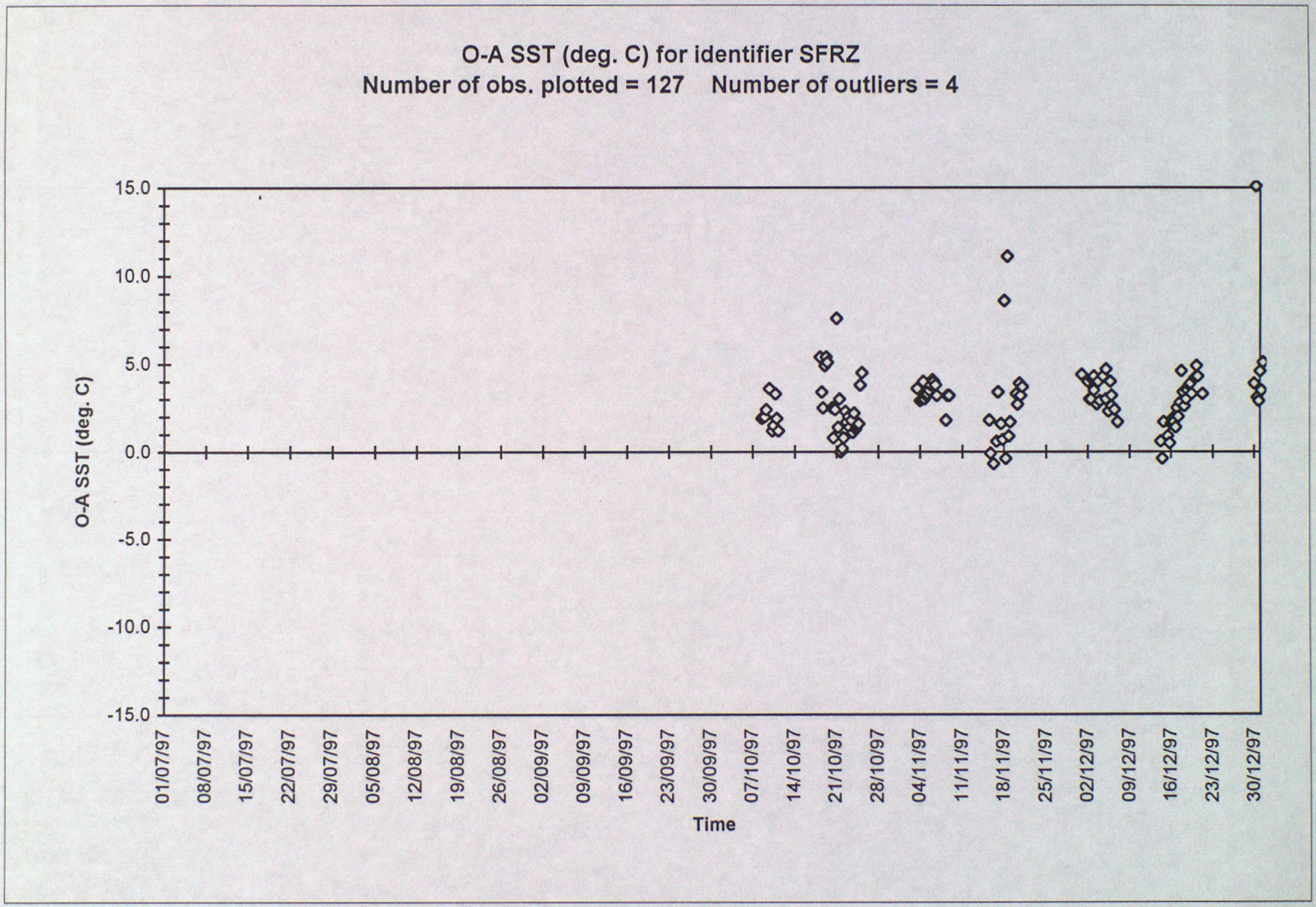
O-A SST (deg. C) for identifier LASS2
Number of obs. plotted = 48 Number of outliers = 1
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier LAVV4
Number of obs. plotted = 160 Number of outliers = 2
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-A SST (deg. C) for identifier LF4C
Number of obs. plotted = 487 Number of outliers = 12
O-A SST (deg. C)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier NFMK
Number of obs. plotted = 56 Number of outliers = 1
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

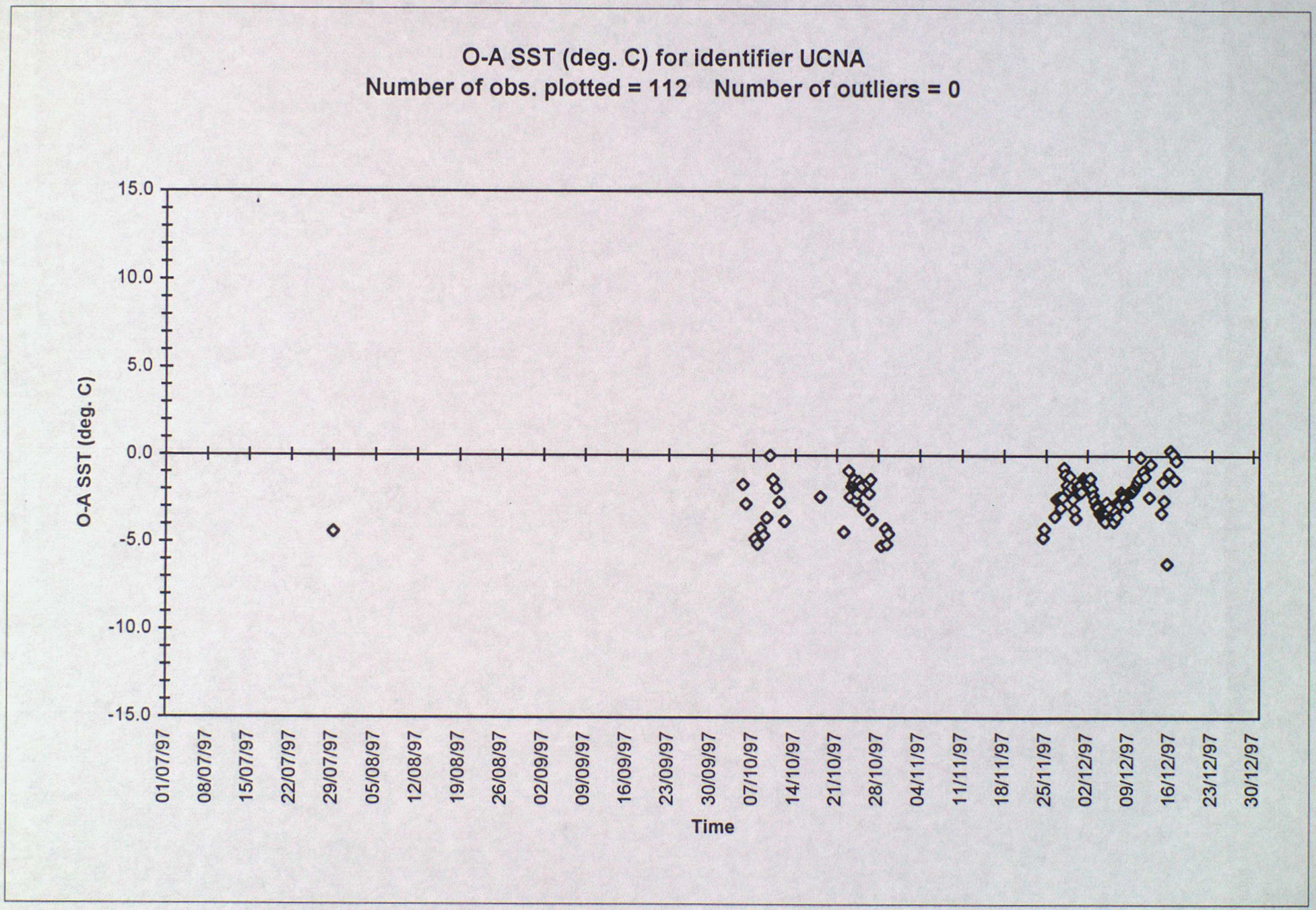
O-A SST (deg. C) for identifier P3NF5
Number of obs. plotted = 42 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-A SST (deg. C) for identifier SFRZ
Number of obs. plotted = 127 Number of outliers = 4
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier S6ES
Number of obs. plotted = 157 Number of outliers = 1
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier UCJD
Number of obs. plotted = 76 Number of outliers = 0
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

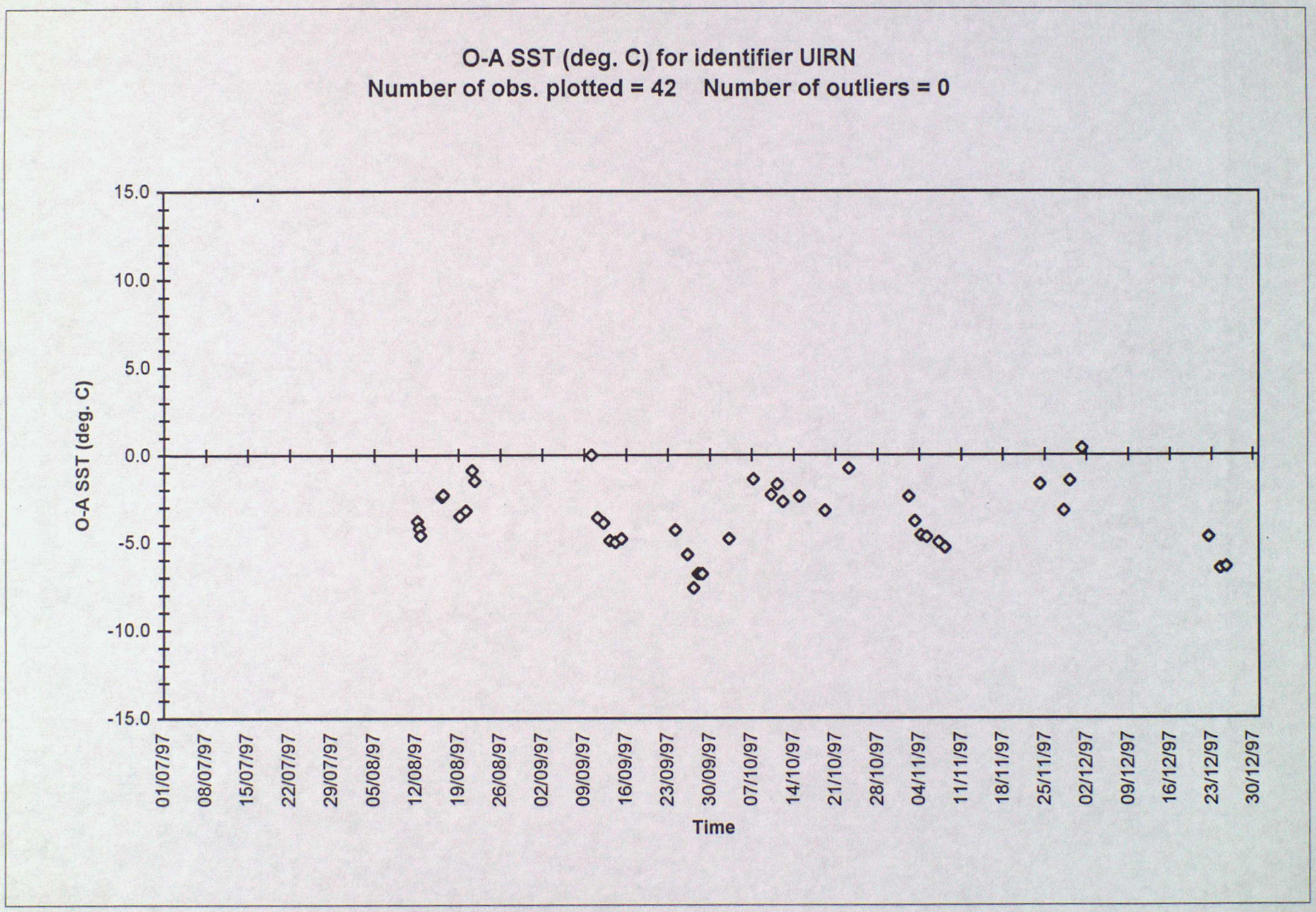
O-A SST (deg. C) for identifier UCMV
Number of obs. plotted = 73 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

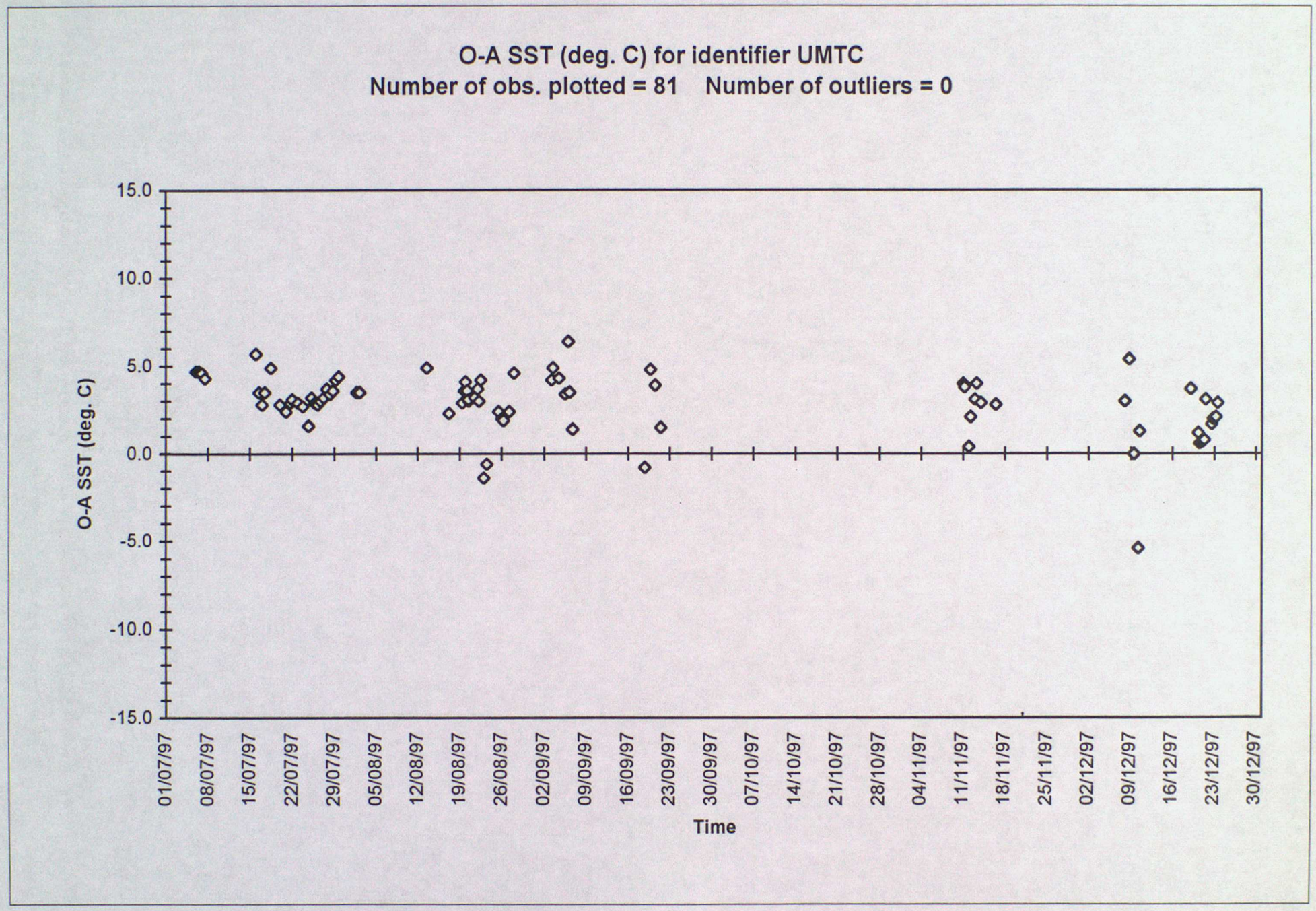

O-A SST (deg. C) for identifier UCNA
Number of obs. plotted = 112 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier UCOJ
Number of obs. plotted = 67 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier UCPQ
Number of obs. plotted = 67 Number of outliers = 0
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier UFYN
Number of obs. plotted = 78 Number of outliers = 1
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-A SST (deg. C) for identifier UIRN
Number of obs. plotted = 42 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time


O-A SST (deg. C) for identifier UMTC
Number of obs. plotted = 81 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier VCRJ
Number of obs. plotted = 114 Number of outliers = 1
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier VJIK
Number of obs. plotted = 46 Number of outliers = 2
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier VJRB

Number of obs. plotted = 76 Number of outliers = 0

O-A SST (deg. C) for identifier VOLG
Number of obs. plotted = 915 Number of outliers = 0
O-A SST (deg. C)
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier VROP
Number of obs. plotted = 174 Number of outliers = 3
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier VRUO7
Number of obs. plotted = 98 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time
O-A SST (deg. C) for identifier VRUY4
Number of obs. plotted = 345 Number of outliers = 0

O-A SST (deg. C) for identifier WA4659
Number of obs. plotted = 542 Number of outliers = 1
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier WCJY

Number of obs. plotted = 109 Number of outliers = 0

O-A SST (deg. C) for identifier WC5932
Number of obs. plotted = 92 Number of outliers = 2
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier WRFJ
Number of obs. plotted = 70 Number of outliers = 0
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
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02/12/97
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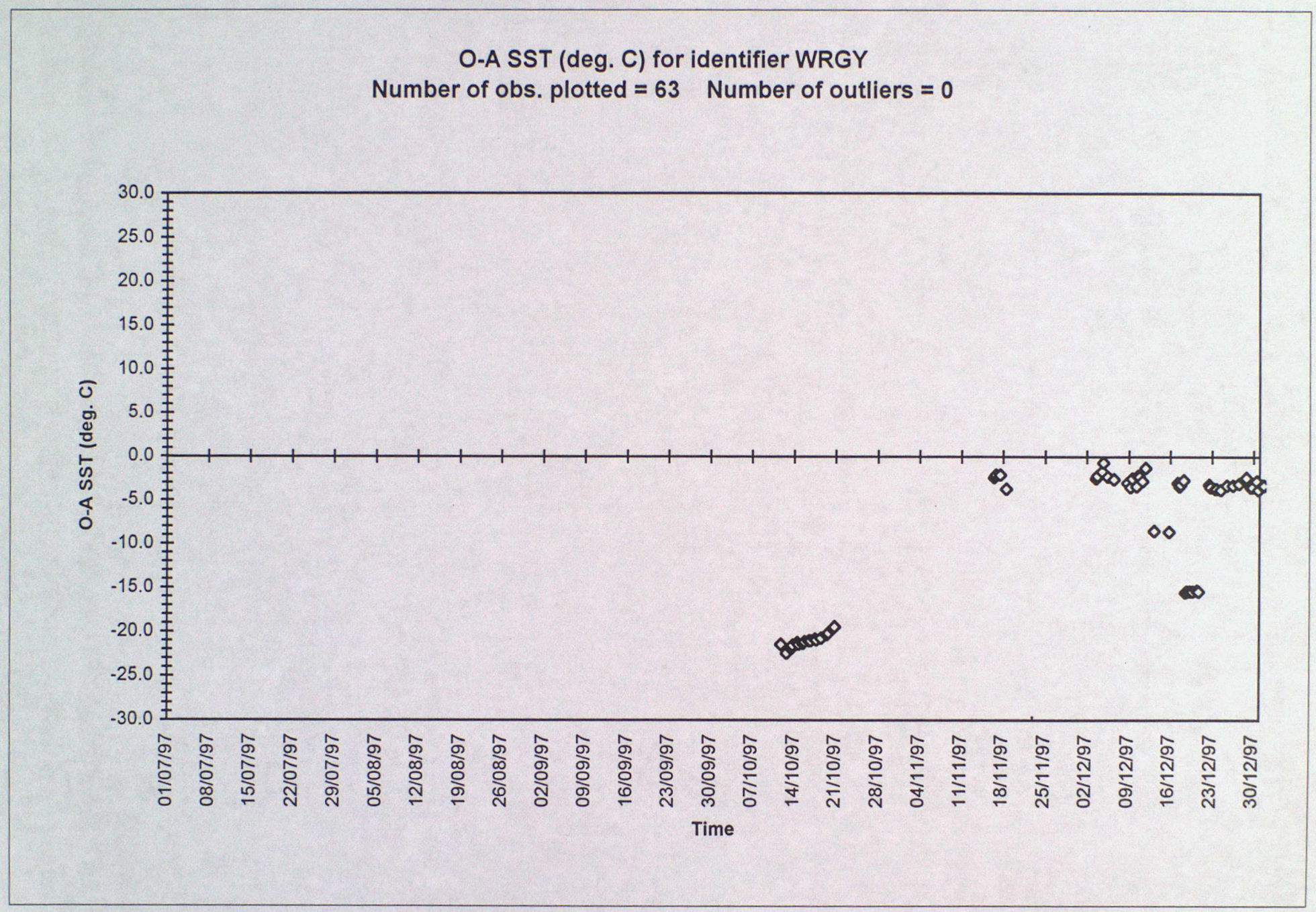
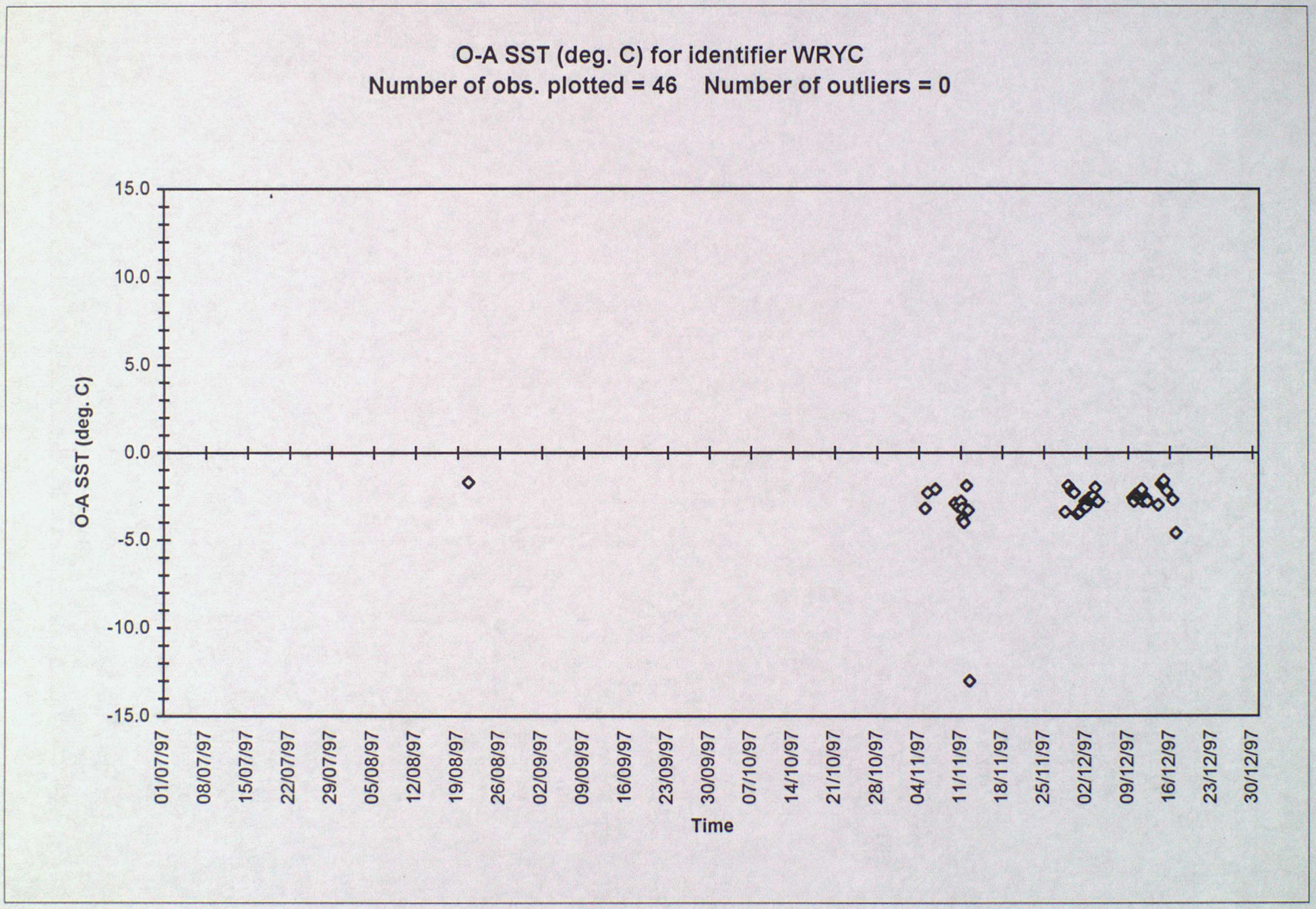
16/12/97
23/12/97
30/12/97


O-A SST (deg. C) for identifier WRGY
Number of obs. plotted = 63 Number of outliers = 0
O-A SST (deg. C)
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

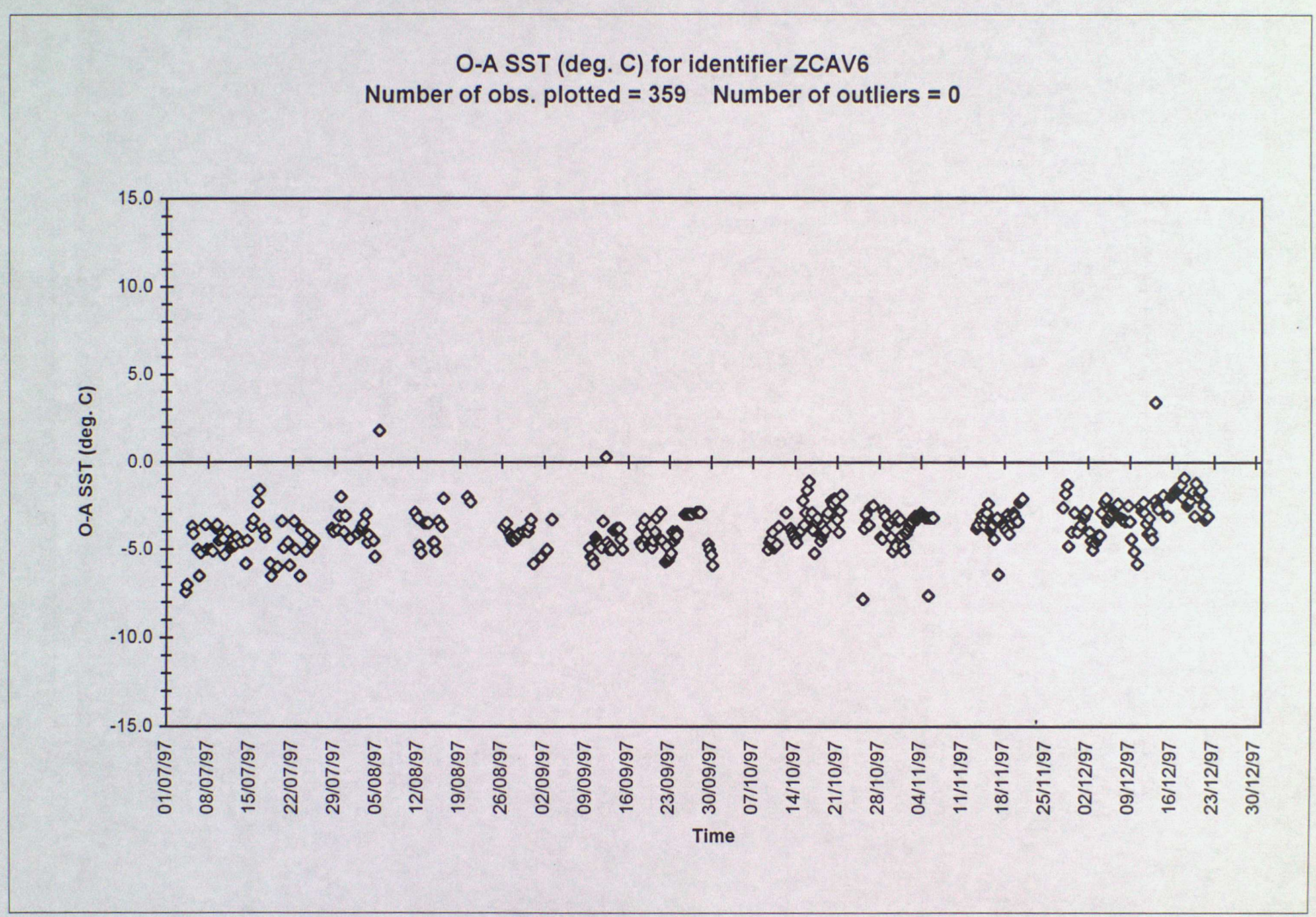

O-A SST (deg. C) for identifier WRYC
Number of obs. plotted = 46 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier WSRL
Number of obs. plotted = 212 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier XYKW
Number of obs. plotted = 68 Number of outliers = 0
O-A SST (deg. C)
-30.0
-25.0
-20.0
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
20.0
25.0
30.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

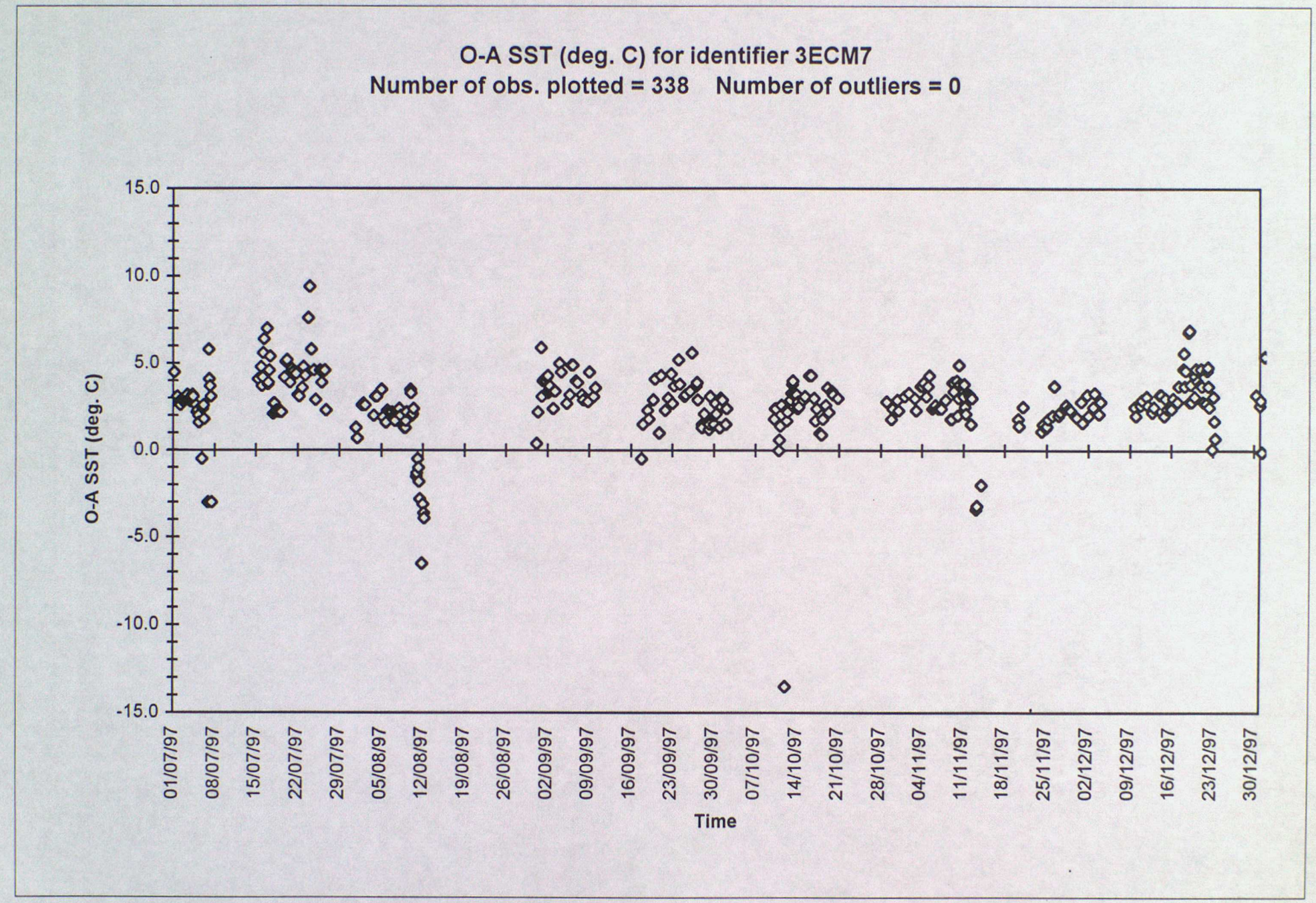
O-A SST (deg. C) for identifier YJYY2
Number of obs. plotted = 216 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier YJZC5
Number of obs. plotted = 340 Number of outliers = 4
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-A SST (deg. C) for identifier ZCAV6
Number of obs. plotted = 359 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier 3EBW4

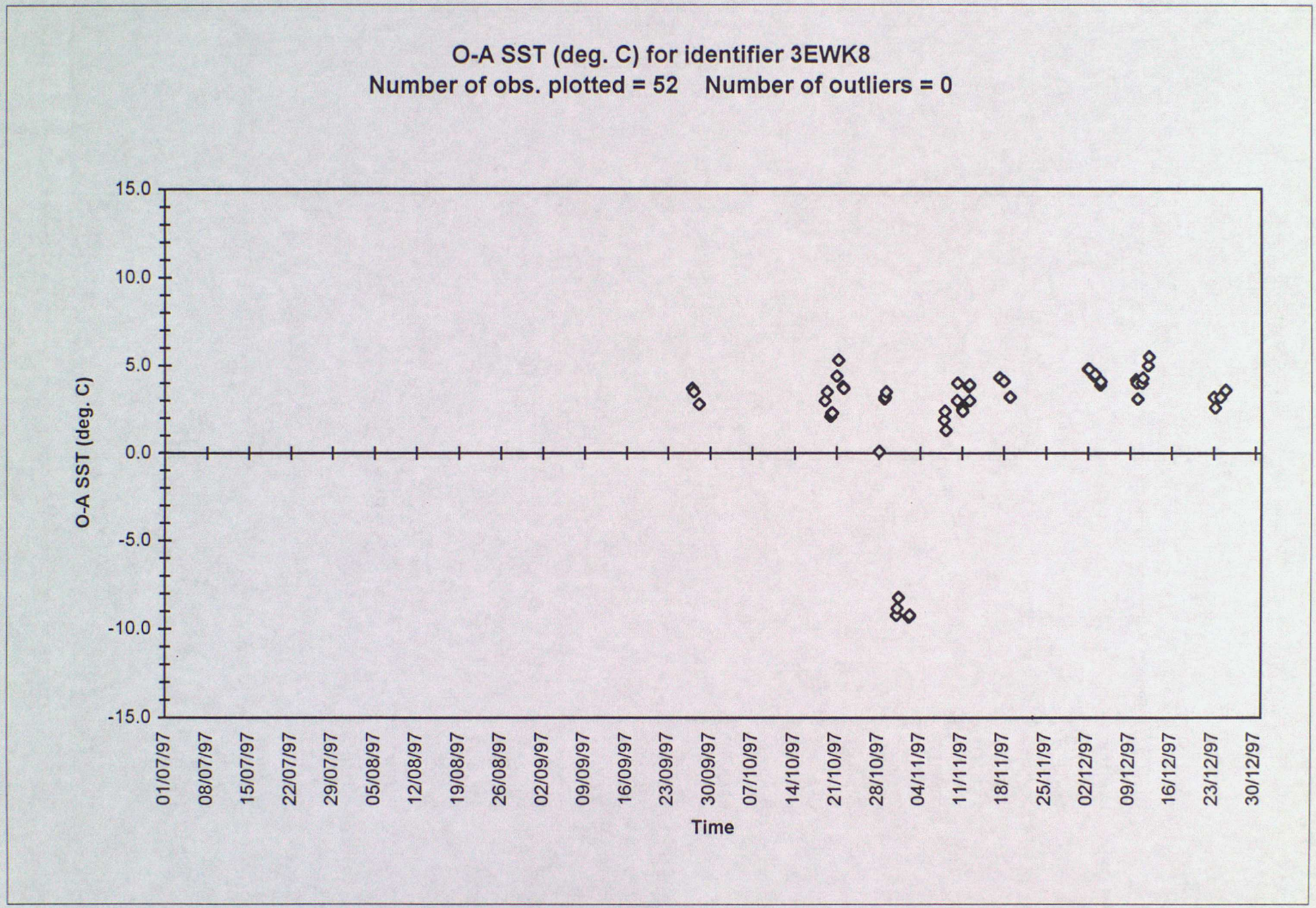
Number of obs. plotted = 161 Number of outliers = 0


O-A SST (deg. C) for identifier 3ECM7
Number of obs. plotted = 338 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

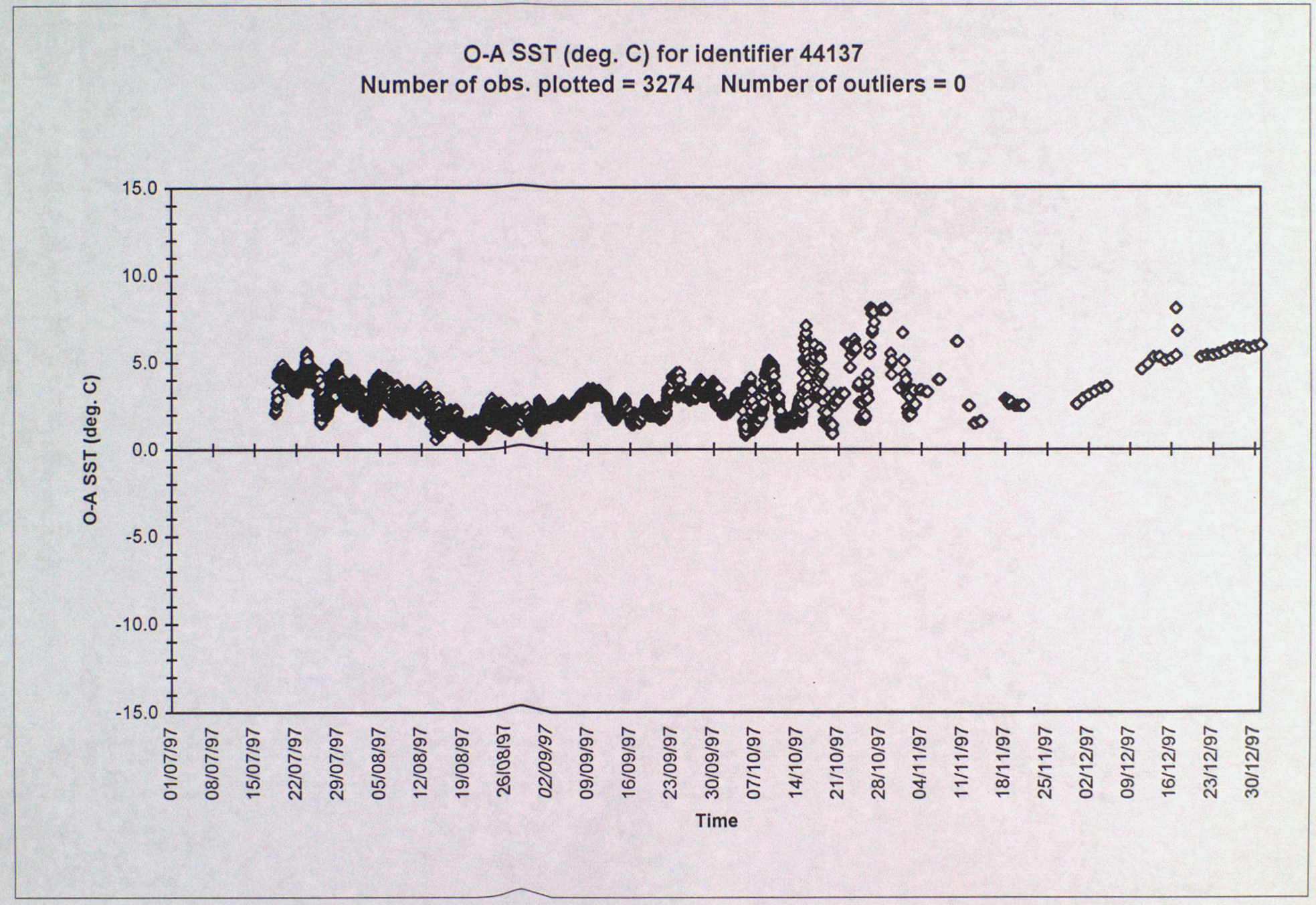
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time
O-A SST (deg. C) for identifier 3ELY7
Number of obs. plotted = 520 Number of outliers = 1

O-A SST (deg. C) for identifier 3EPB6
Number of obs. plotted = 58 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

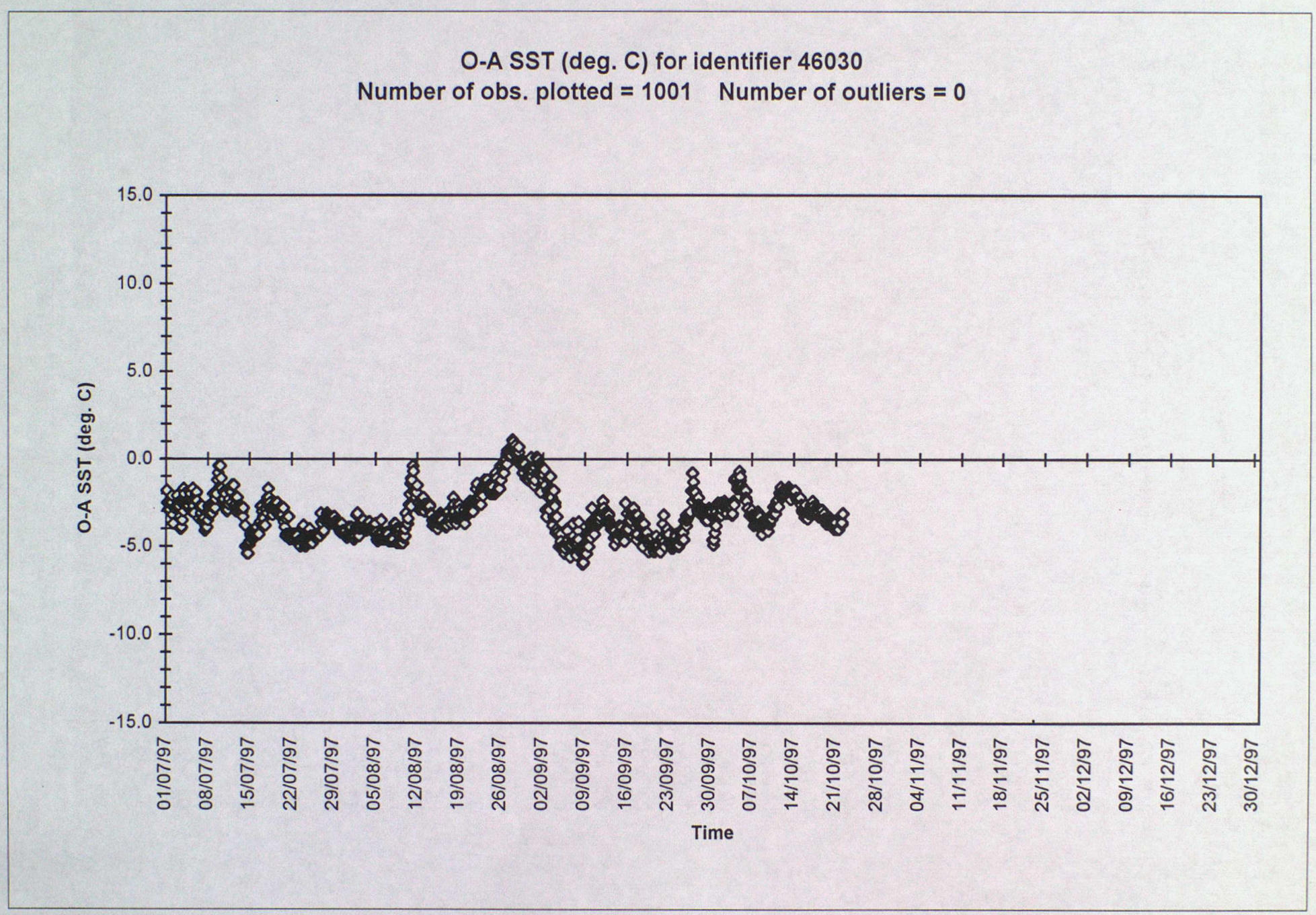
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time
O-A SST (deg. C) for identifier 3ESF7
Number of obs. plotted = 107 Number of outliers = 0


O-A SST (deg. C) for identifier 3EWK8
Number of obs. plotted = 52 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

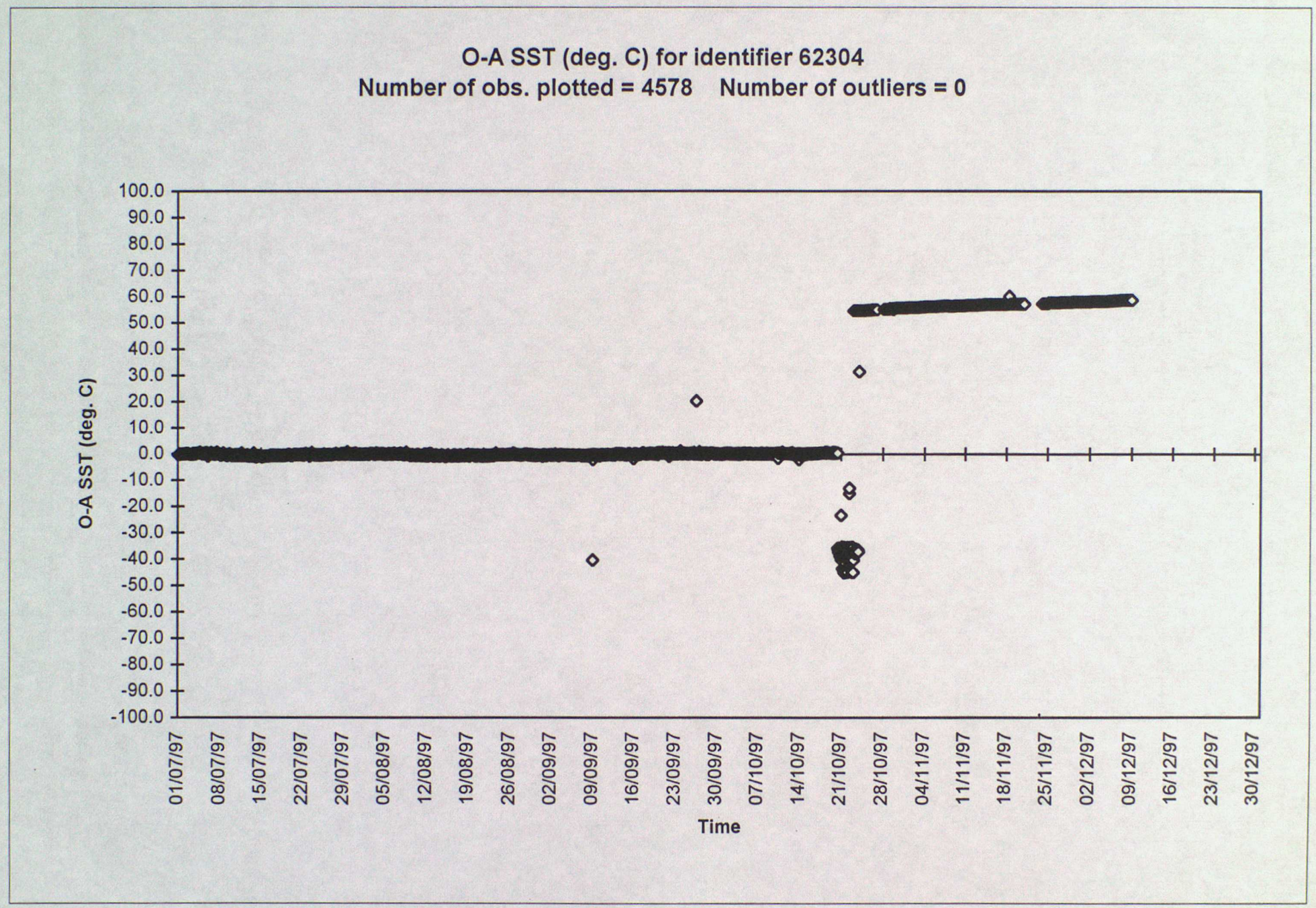
O-A SST (deg. C) for identifier 3FMA4
Number of obs. plotted = 86 Number of outliers = 0
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

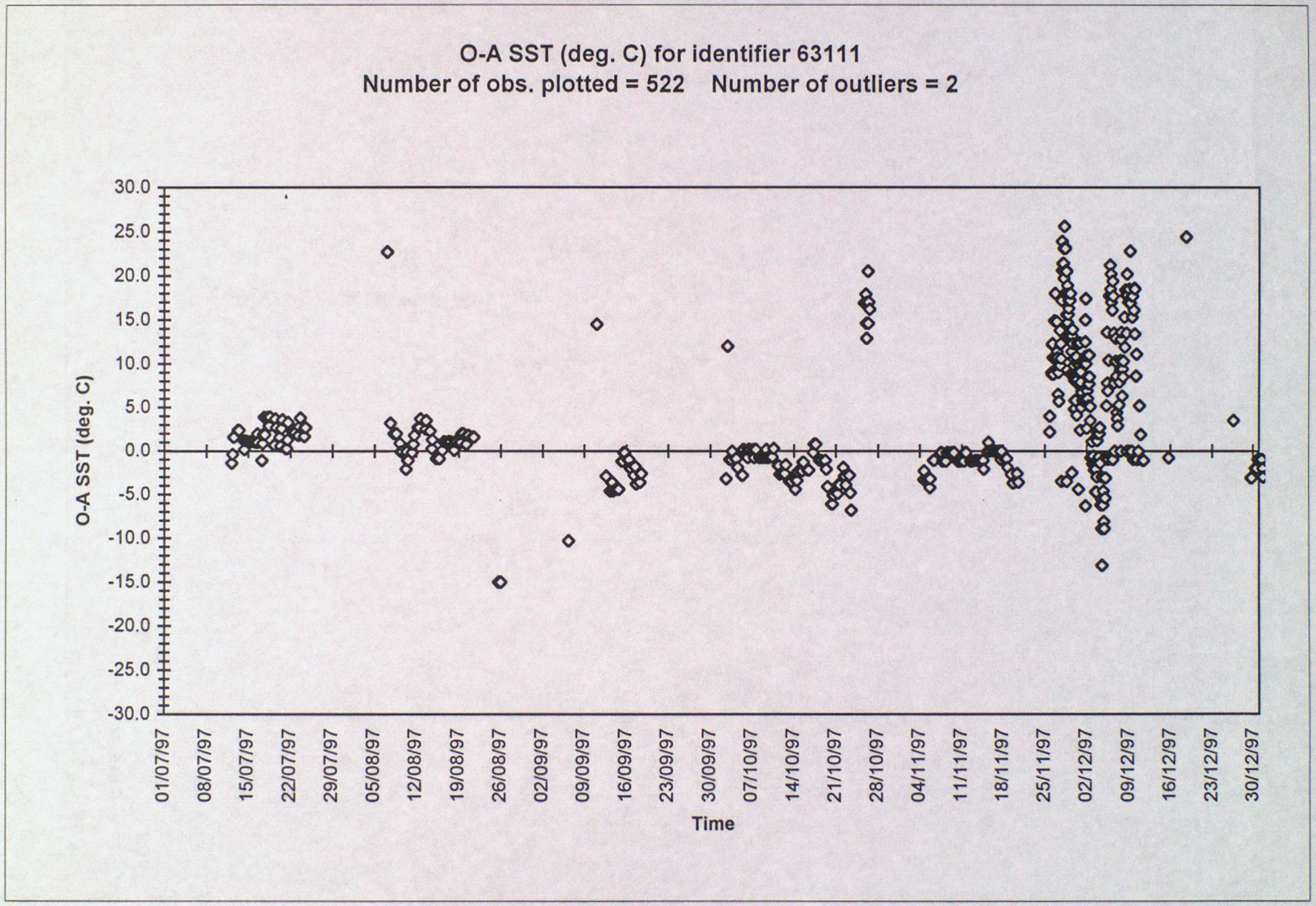

O-A SST (deg. C) for identifier 44137
Number of obs. plotted = 3274 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier 45144
Number of obs. plotted = 721 Number of outliers = 9
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-A SST (deg. C) for identifier 46030
Number of obs. plotted = 1001 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier 62128
Number of obs. plotted = 119 Number of outliers = 0
O-A SST (deg. C)
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97


O-A SST (deg. C) for identifier 62304
Number of obs. plotted = 4578 Number of outliers = 0
O-A SST (deg. C)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time


O-A SST (deg. C) for identifier 63111
Number of obs. plotted = 522 Number of outliers = 2
O-A SST (deg. C)
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
-30.0
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97
Time

O-A SST (deg. C) for identifier 9KKS
Number of obs. plotted = 247 Number of outliers = 0
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier 9MBE4
Number of obs. plotted = 177 Number of outliers = 0
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier 9VHJ
Number of obs. plotted = 94 Number of outliers = 4
O-A SST (deg. C)
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97

O-A SST (deg. C) for identifier 9VOQ
Number of obs. plotted = 45 Number of outliers = 0
O-A SST (deg. C)
-15.0
-10.0
-5.0
0.0
5.0
10.0
15.0
Time
01/07/97
08/07/97
15/07/97
22/07/97
29/07/97
05/08/97
12/08/97
19/08/97
26/08/97
02/09/97
09/09/97
16/09/97
23/09/97
30/09/97
07/10/97
14/10/97
21/10/97
28/10/97
04/11/97
11/11/97
18/11/97
25/11/97
02/12/97
09/12/97
16/12/97
23/12/97
30/12/97